

VHF-UHF DIGEST

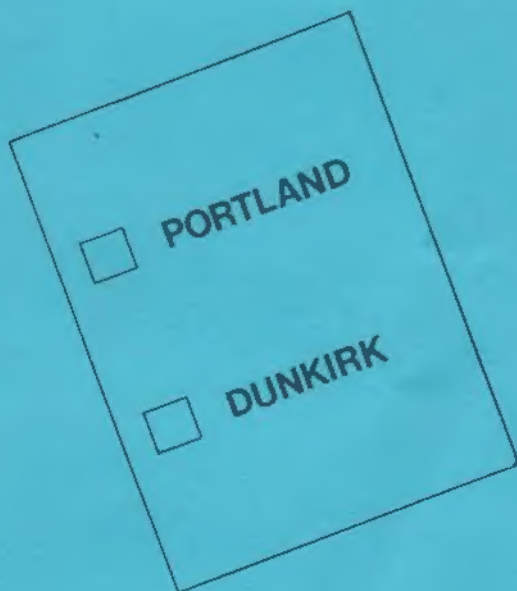
the official publication of the Worldwide TV-FM DX Association

FEBRUARY 1977

IN THIS ISSUE:

- ***AUTOMATED FM MS DX, PART 2***
- ***UNDERSTANDING POLARIZATION***
- ***3 PAGES OF CANADIAN NEWS***

Convention '77...



It's Time To Vote!

publishers' notes...

WTFDA HEADQUARTERS, P.O. BOX 163, DEERFIELD, IL 60015 USA

DEDICATION... This issue of the VUD is being dedicated in remembrance of Pittsburgh DXer Tim O'Malley, WTFDA member since 1975 and a very close friend of your editor. Tim was invaluable during my first few months as editor-in-chief of this magazine, organizing materials and helping out whenever needed. He also served as promotion director and personality on our community radio station for many years. Your editor recalls several memorable all-night DX sessions at Tim's; in fact, more than half of my loggings were made at his hilltop DX site. I was, therefore, very much shocked and saddened to learn that Tim, a nineteen-year-old college student, had passed away on the morning of January 12. On behalf of WTFDA and its members, I'd like to express my deepest sympathies to the O'Malley family on this sad occasion. A scholarship fund has been established in Tim's name at the South Campus of Allegheny Community College in Pittsburgh; any contributions you might care to make would, of course, be welcomed and appreciated.

UHF TRANSLATOR DX GUIDE... We hope you're aware by now that this popular book is out of print. If you'd be interested in helping to compile an updated version of the GUIDE, we'd appreciate your help. A reminder also that we're still looking for volunteers to compile an update to the WTFDA TV STATION GUIDE. If you'd like to help with either task, please write your editor at the address shown on the back cover of this issue.

CONVENTION BIDS... Portland, OR and Dunkirk, NY are the two sites under consideration for WTFDA's 1977 convention location. Please study the data provided on page 25, then let your editor know which is your preference. Only ballots received by February 20 will qualify, so vote today!

BITS... Due to time limitations, Pete Oprisko's educational FM update article has been delayed indefinitely. We'll let you know when it is prepared...Remember that WTFDA Headquarters is now located at P.O. Box 202, Whiting, Indiana 46394. A new masthead for this page, currently being prepared by member Harry Hayes, did not arrive in time for this issue...Next month, the THIS IS YOUR DX column becomes a part of MEMORABILIA, with Robert Williams the editor of both. Please contribute!

This issue marks the beginning of the second year for WTFDA's new editor-in-chief and publishers. On behalf of everyone, I thank you for a very prosperous 1976... may 1977 be as successful for our club!

73, Clarke for Pete, John and Mike

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MAILBOX

John Zondlo
6617 Maryland
Hammond, IN 46323
(219) 844-8694
Deadline: 15th

New Members:

AN Leonard W. Gemar

442-60-5738, NATTC, BEQ Millington, TN 38054
441, Com. DL, Naval Air
Station Memphis (63)

John A. Peterson

Emery Swan

8125 Tuscany

3 Faculty Road

Playa Del Ray, CA 90291

Durham, NH 03824

Renewals:

Michael Albanese, Tim Benko, James Brown, Jr., Bill Drasb, Mike Harron,
Albert Kopec, Rod Luoma, W.J. Mansir, Clint McAuliffe, Richard Stein.

Address Changes:

Artie Bigley-1309 Timberview-Arlington, TX 76014

Renewals Due in March:

Jim Alexander, Dale Easten, James Bogner, Fred W. Born, Roger Bortree, Roger Brown, J. David Buch, Danny Buntin, Mike Collins, Thomas Cornell, Clinton Day, Mike Dorner, Wayne Fitzgerald, Bill Frahm, Ricky Glasgow, Bradley Griffin, Phil Hruskocy, Gerald Katz, David Leibold, Tom Leu, Joe Markiewicz, Dean Markoshan, Pat Martin, Henry McCoy, Jr., Dean Niemi, Fred Norquist, Guy Ogden, Les Price, Theodore Quiroz, John Robertson, R. Rouse, Scott Sampson, Bob Seybold, James Shepherd, Craig Simons, Andrew Smith, Joseph Smith, Jr., Richard Steinberger, Don Storms, Mike Sweeney, Pete Taylor, Steve West, Roger Winsor, Mike Worst.

Doug Everitt has done it again! LEONARD W. GEMAR has received the third gift membership given by Doug in a year.

EMERY F. SWAN is a zoology professor who learned about the club thru the World Radio-TV Handbook and Hank Bennett's book "The Complete Shortwave Listener's Handbook". Emery says that what he really wants is "to learn first about receivers good for both FM DX and MW BOB DX."

Tidbits.....

Ye editor was saddened to learn of the death of member Tim O'Malley of Pittsburgh. On behalf of the club, I'd like to extend condolences to his family.

Many thanks to the Buffalo Evening News for their plug of WTFDA. Our address appeared in the TV Topics Mailbox column, thanks to WTFDAer Paul Traska. Bill Thompson sent along a copy of the article to yours truly, and he said, "The nice plug for WTFDA should be credited to Paul Traska. He spotted the item about distant TV reception that triggered the flood of letters, and he wrote to the editor of the column, James Brennan, with a bunch of info on the club. As you can see, Paul chose to remain anonymous—probably to avoid a flood of inquiries that he couldn't possibly have time to answer, hi!" As Bill says, there seems to be quite a number of "closet TV DXers", as he calls them, in the Buffalo. The item has already triggered a number of requests to club headquarters for information on WTFDA. See how easy it is to get publicity for the club? Use your local media....they enjoy "being used". If your local paper has a Radio-TV column or a Question and Answer column, write in and ask a question about TV or FM DXing. Then you can follow it up with information on the club. (Don't make it obvious, tho, that both letters are from the same person, hi.) Newspapers are always looking for people with unusual hobbies, and what's more unusual than DXing, hi? Local radio stations are often interested in people with unusual hobbies, also. Why not give them a try. I'd love to see a flood of letters from your area asking for information on WTFDA. Well, that's it for this month.....see y'all in da month of March.....jz.

STATION BREAK

Next month we'll be reviving our "STATION BREAK" member ad section in the VUD. If you have a non-commercial ad, send it in!



NY Camden WGN 58805 218.7-627-6816
NJ Camden WGN 106.9 38000 h,v; 550 hz \$
NM Albuquerque KHEM 96.3 1350 h,v; 4100 \$
NM Roswell KRST 97.1 235 (25000 h) \$
NY New Rochelle WYOK-FM 95.5 2400 h,v;
330'; 15, 46 miles; transmitter Yonkers
NY New York WGSB-FM 101.1 4600 h,v; 1300
(coverage same as 30, 69 miles)
NY Rensselaer WQXK-FM 103.9 3000' (3000h)
NY Rochester WMAZ 42.5 28500 h,v (500') ;
reduces coverage to 29, 67 miles; noMIS
NC Burgaw WPJC 99.9 100000 h,v; 510'
NC Dunn WPTI 103.1 3000 h,v; 300' (440'
NC High Point WHPF-FM 95.5 100000 h,v;
NC Fargo KFNM-FM 97.9 100000 h,v; 350'
OK Broken Arrow KGCN 92.1 300' (3000
h,v; transmitter to west side of Tulsa)
OK Tulsa KHEW 95.5 95000 h,v, directional
60'; 39, 83 miles.
PA Philadelphia WUSL 98.9 18000 h,v(830'
WNGK 102.9 12500 h,v;1010
WPCP-FM 104.5 500 h,v; 1010

MH Moorhead 110A 99.9 100000 h,v; 190' [mi.

OH Centerville NCMT *91.9 (not *89.5) r

OH Mount Vernon **WVVO-FM** 93.7 k (it was apparently never gospel); S.
 PA Carlisle **WDCV** *88.3 p
 PA Gettysburg **WZBT** *90.3 p
 PA Nanticoke **WJWJ** 92.1 ABC-FM
 PA Philadelphia **WUSL** 98.9 m
 PA Pittsburgh **WDEW** 102.5 rp (not ABC-FM)
WYDD 104.7 ABC-FM
 PA Uniontown **WFOR** 99.3 m
 TX Lufkin **KLUF-FM** 105.1 m
 TX Sinton **KNCH** 101.3 p (not m), g; was off for a while, but now back on!
 TX Tyler **KROZ** 92.1 k (nto(not m))
KTYL 93.1 p (from k)
 VA Norfolk **WONI** 102.9 p (from sj); "Woe!"
 Ont., Burlington **CING** 107.9 m
 Ont., Windsor **CKLW-FM** k (was k); "FM-94"
Network Mysteries ???
 AL Scottsboro **WONA** 98.3 has ABC, but which of ABC's four networks?
 MT Dillon **KOBM** 98.3 has ABC, but which?

More Formats/Networks

IN Elkhart **WXAX** 104.7 m (not g)
 IN Hamilton **WHLT-FM** 103.1 m
 IN Richmond **WRJA** 101.3 m
 IN Rushville **WRCR** 94.3 m (not r)
 IN Wabash **WNUZ** 95.9 r (not rk)
Non-IDs (Selected)

CA San Francisco **KMAI** 99.7 "stereo 99";
 g, m (to go to KYJU); NBC news?
 CT Brookfield **WINE-FM** 95.1 "1-95." Now
 separate rock from AM affiliate.
 KS Salina **KSKG** 99.9 "99-KG"
 MI Saginaw **WIDS** 106.3 M-106
 NY New York **WNBS** 97.1 Y-97 (to be WYNY)
 OH Cleveland **WGCL** 98.5 G-98
 Ont., London **CPLT-FM** 95.9 Stereo 96

Call Letters Assigned

AL Stevenson 101.7 **WVSY**
 AL Tracy 105.7 **WRSS** (from **WTUB**) ["K-104"]
 AZ Mesa 104.7 **K106** (**KBUZ-FM**); automated r/
 AR Walnut Ridge 105.3 **KCAC**
 CA Inglewood 103.9 **KACE** (**KAGB-FM**)
 CA Paradise 96.7 **KMVR**
 CA Ridgecrest 92.7 **KZIU-FM**
 CA Salinas 103.9 **KCTY-FM**
 CA San Diego 98.1 **KIFM** (**KDIG**)
 CO Colorado Springs 101.9 **K1RX** (**KRYT-FM**)
 CO Glenwood Springs 92.7 **KGLS**
 DC Washington 100.3 **WODK** (**WFAN**); Stereo;
 English (drops Spanish); rs, "OK-100."
 FL Orlando *89.3 **W5AG-FM**
 IL Champaign *88.7 **WPCD**
 IL Chicago 101.1 **WQXG** (**WNIS**); g, rp,
 believed to have NBC news.
 IL Zion 96.9 **WKNZ-FM** (**WKNZ**)
 IN Evansville *91.5 **WUEV** (**WEVC**)
 IN Indianapolis *91.5 **WRFI** Franklin School
 IA Emmetsburg 98.3 **KEMD**, m; expected to be
 on air now with 3000 hz; 300". Stereo?
 KS Kansas City 98.1 **KMOL** (**KIDL-FM**)
 KS Overlin 101.1 **KSNF** ["90.7"]
 KS Scott City 94.5 **KULL** (**KFLA-FM**)
 ME Bath *91.5 **WNOS**
 105.9 **W1GY** (**WJTO-FM**)
 ME Portland 93.1 **WNGX**
 MD Glen Burnie 95.9 **WBNZ** (**W1SZ-FM**); g, r
 MA Brockton 97.7 **WCAV** (**WBET-FM**)
 MI Sault Ste. Marie 101.3 **W5UE**
 MN Willmar 101.7 **KWCH** (**KWCH-FM**)
 NY Rochester 101.7 **KWCH** (**KWCH-FM**)
 MS Meridian 101.3 **WOL** (**WOL-FM**)
 MO Overland *90.1 **KRSH**
 NY Gouverneur 92.7 **W1UF** (**W1GS-FM**)
 NY Monticello 98.3 **W5UL**

OK Oklahoma City 100.5 **KATZ** (**KJAK**), "The
 Cat," p, with some light country
 PA Chester *89.5 **WONR**
 PA Millersville *91.7 **W1XQ**
 SC Orangeburg 10
 106.7 **W1PJ** (**W1X-FM**)
 SD Aberdeen 94.1 **KSN-FM** **W1X** Lamesa 104.7
 TN Germantown 94.3 **W6TG**
 TN Jefferson City 99.3 **W5BN**, **KDOT** — —
 TX Dallas 102.9 **KWGC** (**KDIX**) change from g?
 TX Fort Worth 97.1 **WJZ-FM** (**KW11**) [K's]
 TX Odessa 99.1 **K10K**, g, g (quad; hence 4/
 UT Logan 92.9 **KSLW-FM**
 VA Charlottesville 97.5 **WVWV** (**WCCV-FM**)
 WA Walla Walla 93.3 **KEX1**
 WV Rainelle 96.7 **WRR-FM** **WY** Torrington
 WI Middleton 106.3 **W1AD** (**W1AD-FM**)
 WV Williamson 96.5 **W1CN** **KEM** 98.3; SCA

Abbreviations Used (Selected)

Program codes: c classical, e ethnic, g
 gospel, k country, m middle of the road,
 n all news, p progressive rock, r rock
 oldies, top hits and "adult rock"; s soul,
 t all talk.

Network codes: A ABC-FM, C CBS, E ABC
 Entertainment, I ABC Information, M Mutual,
 N NBC, P National Public Radio, S Associated
 Press Audio, U United Press Audio, Y
 ABC Contemporary, Z Mutual Black network.

SCA symbols: A ABC networks, E ethnic and
 foreign language, F farm news, M or MZ
 music or Muzak, N NBC network, Q Physicians
 Radio Network, S sports, T talk, TU talking
 book for the blind, K facsimile, slow-
 scan-TV, teleprinter noise, such as **W1VE**
 94.9 Garaboo-Madison WI has.
W1WZ 92.5 Rochester NY said to still have
 northbound **NBC** HIS, n, as of Jan. 16, 1977.

Readers' Reports and Comments

"These non-IDs seem to be multiplying like rabbits," said one reporter who supplied many of the non-IDs given above, and as a perusal of Clarke's feature in last month's VUD would indicate. The program format change of **WEZX** 107.1 Scranton PA from m to r resulted in the station's receiving a letter of complaint from one correspondent, who said there is no longer an easy-listening station in Scranton. Reported off the air: **WBZH** 101.5 Trenton NJ, which has been having transmitter problems and in maintaining stereo separation, as well as with bass frequencies. **WYZZ** 92.9 Wilkes-Barre PA heard with Mutual; are they quitting A? **WMAZ-FM** 107.3, now being programmed by ABC-FM in Washington DC, p, but with "announcers who seemed to know nothing about the music they played." **WCAO-FM** 102.7 Baltimore 75% c; about 25% rock. **WHSF** 102.3 Bethesda MD, "Home Grown Radio" is one of the few stations to help local talent; frequently has live concerts in its studio. A reprint of an article, "Nothing New Under the AM Sun," from the Jan. '77 **Audio** was sent, which concerned the reputedly good AM fidelity of the 1937 30-tube Scott Philharmonic, which was subsequently improved upon with the introduction of 40 mHz and 100 mHz FM bands in models just before Scott Radio Labs expired in the early 1950's. The article points out that vintage Scott receivers would probably not work properly now, without an extensive realignment, cleaning, and tube replacement.

Louisville's two library stations, **WFPL** 89.3 and **WFPK** 91.9, hope to both be 100 kw on the air by February (just across the street from **WLRS** 102.3, and there is a terrible harmonic area there, with 1 classical, 1 talk, and one rock station within 100 yards of each other!).

WBST Muncie IN when it finally gets permission to move to *92.1 with 3 kw, expects to be received within a 37-mile radius; at the present 10 watts "on a clear day, **WBST** can probably go out about eight miles," they estimate, which seems realistic enough. An Indiana reporter said he talked with a consulting engineer doing some work on FM in Toronto; apparently for a station considering going up on the CN Tower; "they want to know the results of such a concentration of stations relative to auto receiver overload. . . There are 5 FM's up there now; and there is room for a total of 11. Apparently there is considerable expansion in the works for FM in Canada and Toronto, in particular."

KMAG 99.1 Fort Smith AR has its transmitter on Magazine Mt., a good 50 miles from city of license, which should be indicated on my maps. "Your FM column gets better all the time. However, I wish you would run the symbols key every 2-3 months [see above—ed.], as I and many others get

mixed up with all the abbreviations and no reference to clarify them." (I'm surprised to find out that my column "gets better"; I thought it had gotten to a certain point of excellence or mediocrity and stayed there! I have written to WTCM-FM Shawano WI, threatening to complain to the FCC if they continue to stall in moving from 100.1 to 99.3, and got a not-too-friendly response from Ray G. Gruetzmacher, president: "I am appalled at the total ignorance of conditions made manifest in the enclosed communication from you, concerning our frequency change. May I suggest that before you make any threats, you get the facts concerning this case. Your audacity is only exceeded by your bad judgement (sic). If I don't hear from you regarding this, I'll forward copies of this correspondence to the Federal Communication Commission for their records and consideration. Your early response is expected." So I wrote again, enclosing a copy of an ad for the FM Atlas, and would you believe, he didn't order a copy? An Appleton WI reporter heard the FM Atlas ad on WAUN 92.7 Kewanee WI, and he's been hearing WAUN over two months now on 103.1 at equal strength from south to southeast. An extra-legal FM translator in Chilton for WAUN? I'll check on this. Or maybe Bill Drabek could check this out locally. WORT *89.7 Madison identifies rarely as that; more often as "Back Porch Radio."

One VUD reader suggested my underlining headings in this column, so I have done that. He also sends comments on the Dec. column, noting that the FCC probably won't chastise a broadcaster for combining v & h powers, because he contacted the FCC office and talked to a Mr. Allen in St. Paul, who was not at all concerned about the poor audio and high hum level of KDHL-FM 95.9 Faribault MN; he wasn't even too concerned about the illegal "WPAZ" which had been on 92.9, 96.1 and 96.6; "guess the FCC is too snowed under with CB complaints." His comments on the Atlas: "Keep brackets" in the Station Directories for 10-watters, instead of "2 and 9" coverage guesstimates; "keep up the non-IDers feature—much needed in DX. Don't put non-IDers on maps! Will be too cluttered! Also - SCA was active in 1956 (not '58 as noted). I have old article on WLWL, stating one reason to build FM was for Muzak (they came on in Dec., 1956)." KRLK *90.3 Northfield MN not heard for several months; deleted?

KEMB 98.3 Emmetsburg IA to be on the air 6 am to 10 pm 7 days/week, and they were to have come on the air Jan. 10. KMKG 93.3 Des Moines has switched from mild rock to top 40; KDMI 97.3 Des Moines is Mutual, while KTOF 104.5 Cedar Rapids is being sold: "I would guess a change of format—rock or more probably." KWTW *90.3 Sioux City IA will be on the air about Oct. 1, 1977. "As with all public radio stations we will do our local programming—not repeat programming of any other station, such as WOOFM. . . Station will have its own building, will be professionally staffed, and full stereo." KMOE 92.1 Butler MO confirms for me that they are not stereo; monaural.

KAEZ 107.7 is the only black-owned radio station in Oklahoma. "Apparently, there had been a good number of other applicants for this, OKC's last open FM. The owner explained [on a public affairs program on KOCO-5] reasons for going FM (better fi, fulltime operation, etc.); he seems technically well-qualified. . . The station is very well run; audio quality is very good. There was no mention in the interview if the station would be going \$ in the near future." And "In the December VUD, I note one reporter cutting down the Atlas—he doesn't know what he's talking about! You're right about 'historical value' of old logos scattered about. On the other hand, I would rather have programming than nets in the frequency section. . . it makes MS DX a lot easier. . . Your non-IDer list is not superfluous, tho it isn't totally complete either. FMorgue sounds okay, too. Use of the W-E format would also suit me better. Drawing major interstates sounds good—provided it doesn't clutter the maps. The small print for ten-watters is good, too. . . If AM went stereo, records would no longer have a reason to be careful with phase (to make it sound all right in mono); therefore, it might help improve stereo records — on radio, AM or FM, or on the home phono. AM \$ wouldn't be hi-fi, but it has its merits, I guess. . ." KCRB-FM 98.9 Enid OK has wandered down to 96.5 at times, but hopefully has better audio now that they have higher power on the air (flip back 2 pages). There's a possibility a strike application will be filed against 'em!

New SCA news is sent from Seattle, where the brother of a reporter now has SCA. "We did not have a schematic between the two of us we managed to find the right places to tap power and SCA."

CONTRIBUTORS last month: Frank Aden, Jr., Bend OR; Larry Bolef, KCHU Dallas TX; Thomas Cassell, Dunmore PA; Tom Cornell, Kokomo IN; David Cox, Birmingham AL; George H. Giller, WOKF Clearwater FL; Mike Dorner, Jr., Metairie LA; Jim Duncan, Kalmazoo MI; John Ebeling, Bloomington IN; Doug Everitt, Enid OK; Brian James, Eugene OR; Nick Lombardi, Atlanta GA; Joe Markewitz, Norwell Heights, Ont.; Vic Wells, Spring City PA; Eric Norberg, Portland OR; Pete Oprisko, Whiting IN; R. A. Segalas, San Fran. CA; Andy Smith, Dillsburg PA; Ralph Strobel, Muncie IN; Peter V. Taylor, San Fran. CA; Robert Zent, Huntington IN; John Zondlo, Hammond IN.

CONTRIBUTORS this month: Robert Baker, Humboldt IA; Cassell; Cornell; Dwight Crabtree, Lafayette NY; W. O. Dickerman, Williamsport PA; Ebeling; Everitt; Ted Fleischaker, Louisville KY; R. G. Gruetzmacher, WTCM-FM Shawano WI; Joel Harman, Ames IA; Clarke W. Ingram, Pittsburgh PA; Edward H. Isotalo, Appleton WI; Jack K. Lattinaw, Tempe AZ; Nick Lombardi, Atlanta GA; Clint McAlliff, Greeley CO; J. R. Mc Clure, Greenville SC; Frank Morrill, Toledo OH; Gary Olson, Lake Forest IL; John Robertson, Crosswell WI; David M. Sawyer, KFZ Greeley CO; Smith; Strobel; James E. Sylvester, WQON Grayling MI; Taylor; Robert W. Thomas, KBIT Sioux City IA; Larry Well, East Rockaway NY; Steve Nest, Haverton PA; Zondlo. Also: Gene Sisk, WFTO-WFTA Fulton MS; KMOE (no signer) Butler MO.

The National Radio Broadcasters Association filed comments with the FCC opposing the opening of the commercial FM band to 10-watt public, noncommercial radio stations, pointing out the difficulty of protecting higher-powered commercial stations from interference and frequency strangulation, which are " dangers posed by the proposed rule-making."

FM DX NORTH

Fred Wardquist
7945 Boxford Rd
Clay, NY 13041
Deadline: the 10th

February 1977

Es was noted on 1/2 by one reporter in MN. Very limited tropo was noted out to the 300-400 mile range as very cold wx conditions prevailed in the North. Most new catches are the result of changes to station facilities, etc. Michael Hogan (Highland, IN) dropped a line to report that there was no DX to speak of from his location -- and I'm just as impatient as he is in waiting for spring (and better DXing conditions) to come. Please report your FM DX to this column if you live in the following states/provinces: ME MA RI CT NH VT NY NJ PA OH IN MI IL IA WI MN NFD PEI NS ON NB

Ralph Strobel - 2510 E. McCalliard Road - Muncie, IN 47303 (EST)

Eqt: RX: Heathkit AJ-1510 Ant: Winegard 60'	AGL w/rotor. New Underlined. Totals: 607.
9/9 Tr 0100 WTCO 103.9 KY Campbellsville	10/19 Tr 0715 WNAS 88.1 IN New Albany, r, s/on
9/14 0000 WBY 92.1 WI Racine, m	10/20 0530 WCCO 98.3 IL Crest Hill, s/on
9/16 1000 WRCJ 89.3 OH Reading, r	10/21 0815 WOTR 90.9 MI Detroit, s/on
9/17 1230 WDOC 95.5 KY Prestonburg, m	10/25 0600 WBTG 99.9 IL Kankakee, r, s/on
9/19 2300 WKBC 92.1 WI Manitowoc, m	0629 WENT 100.1 OH Kent, r
9/20 0800 WHSS 89.5 OH Hamilton, r, 10w.	10/26 0743 WLRA 88.1 IL Lockport, r
9/25 1200 WFB 95.1 MI Flint, SS	10/29 1525 WRSF 89.9 OH Miamisburg, r, 10w.
9/29 2330 WQED 89.3 PA Pittsburgh, c	2358 WKCI 89.3 IN Franklin, r, 10w.
2330 WETS 89.5 TN Johnson City, c	11/1 2240 WPR 98.5 IL Freeport, k, SID
10/1 0130 WJXD 96.5 OH Akron, p	11/2 0800 WLHI 88.3 IN Ft. Wayne, s, 10w, s/on
10/2 0434 WSAQ 107.1 MI Port Huron, m	11/12 1330 WDEM 91.1 IN Indianapolis, s, r
10/3 0620 WCRF 103.3 OH Cleveland, g	11/15 1200 WJEL 89.1 IN Indianapolis, c, r
10/4 1950 WGLT 89.1 IL Normal, c	11/16 0907 WJEF 91.9 IN Lafayette, m
10/5 0001 WJRE 92.1 IL Kewanee, r, s/off	11/17 0420 WUSO 89.1 OH Springfield, p, s/off
10/6 2307 WPEM 92.1 PA Elwood City, k, s/off	11/18 1620 WSGS 101.1 KY Hazard, k
10/11 0130 WITL 100.7 MI Lansing, k	1700 WCVT 91.9 OH Centerville, r, 10w
10/12 0800 WGM 88.1 OH Dayton, r, s/on, 10w.	11/30 1700 WCNE 88.7 OH Batavia, r
10/14 Em 0103 CKY 92.1 NB Winnipeg	11/30 1700 WTSU 88.5 OH Youngstown, c
10/15 Tr 1700 WLS 89.9 OH West Chester, r, 10w.	

The stations listed below (including other closer stations, and outside of EF -- not listed here - 2jn) are ones I can pick up most any time. Usually I can pull in more, but rainy and snowy wx hasn't helped lately.

12/6 Tr 0049 CKLW 93.9 OH Windsor, k(200)	12/6 Tr 0145 WGER 102.5 MI Bay City, m(250)
0058 WSTO 96.1 KY Owensboro, m(195)	0147 WDBE 102.5 PA Pittsburgh, r(280)
0058 WHNN 96.1 MI Bay City, r(250)	0157 WSNW 103.7 WI Wausau, m(250)
0111 WISN 97.3 WI Milwaukee, m(250)	0200 WQAL 104.1 OH Cleveland, m(220)
0112 WEMK 97.3 WV Wheeling, m(250)	2231 WNNM 107.9 WV Huntington, c(200)
0123 WKSX 99.5 OH Cleveland, m(220)	2232 WDMT 107.9 OH Cleveland, m, g(220)
0144 KEZK 102.5 MO St. Louis, m(275)	2233 WCBU 89.9 IL Peoria, c(225)

John D. Hathaway - 2109 Tamarack Court - Champaign, IL 61820

Equipment: RX: Zenith. Present Log Total: 44

11/3 1107 WTRC 103.9 IL Urbana	11/26 1850 WPGU 107.1 IL Urbana
1127 WSHY 104.9 IL Shelbyville	1853 WVLJ 105.5 IL Monticello
1130 WPM 104.5 IL Springfield	1954 WFWA 106.3 IL Sullivan
1141 WMBJ 102.1 IL Danville	1958 WSMI 106.1 IL Litchfield
1414 WACF 98.5 IL Paris	12/12 0228 WSOY 102.9 IL Decatur
1442 WDM 97.5 IL Champaign	12/14 2229 WHOW 95.9 IL Clinton
11/13 1244 WIAI 99.1 IL Danville	12/16 2030 WQZQ 95.1 IL Decatur
1419 WLBH 96.9 IL Mattoon	2211 WMAP 93.1 IN Indianapolis
1437 WRTL 95.3 IL Rantoul	2232 WBB 92.7 IL Taylorville
1730 WLF 94.5 IL Champaign	2319 WSSR 91.9 IL Springfield
1735 WITT 93.5 IL Tuscola	

Fred Nordquist - 7945 Boxford Road - Clay, NY 13041 (EST)

Equipment: RX: Heathkit AJ-15 Ant: JFD LPL-PM10A at 45' AGL. New underlined. Totals: 846.

12/22 Tr 1545 WAMO 105.9 PA Pittsburgh, s(275)	12/27 AS 0954 Unid 100.3 "This is OK-100"
1551 WRK 103.5 OH Steubenville(296)	1149 WDBE 90.1 DC Washington (300)
1600 WNIC 100.3 MI Dearborn, ID (355)	Tr 1150 WBOB 90.3 OH Cleveland, 50w(308)
12/23 Tr 1858 WAEZ 97.5 OH Akron, m (295)	12/28 AS 1757 WYAM 100.1 PA Altoona, k (225)
AS 2140 WWC 88.9 WV Buckhannon, (360)	12/29 AS 1840 WCRF 103.3 OH Cleveland, g (300)
12/24 Tr 0904 WKSU 89.7 OH Kent, j (300)	Tr 2130 WCRH 90.5 MD Williamsport, g, (255)
0920 WHUR 96.3 DC Washington (300)	noted consistently over WDUQ
MS 0939 Unid 94.7 "8:39" time check	12/31 1003 WRFL 92.5 VA Winchester (300)

Paul Traska - 64 Weaver Ave. - Buffalo, NY 14206

Eqt: Grundig-Majestic radio AM-FM-SW. Ants: Channel Master 34 el. VHF-UHF-FM w/built-in pre-amp & FM trap. I use the ant. for TV DX, thus reason for trap, so FM DX is somewhat impaired by this trap. Log totals: 70; States: 5; Prov.: 1; 24 on Educ. ch. All loggings new.

11/29 Tr	2000 WOIV	105.1	NY	DeRuyter	12/8 Tr	2000 WDUQ	90.5	PA	Pittsburgh
	2030 WGSU	89.3	NY	Genesee	12/10	1200 WAUP	88.1	OH	Akron
12/4	1900 WRVO	89.9	NY	Oswego		1945 WBSO	89.7	NY	Geneva
12/5	0010 WLIT	92.3	OH	Cleveland Hts		1600 WKXI	91.5	NY	Rochester
	1800 WICB	91.7	NY	Ithaca		2040 WRTI	90.1	PA	Philadelphia
	2100 WUOM	91.7	MI	Ann Arbor	12/12	0300 WKBN	98.9	OH	Youngstown
	2215 CKOT	101.3	ON	Tillsonburg	12/15	2300 WAMC	90.3	NY	Albany
12/6	0140 WSEN	92.1	NY	Baldwinsville	12/16	1700 WKTL	90.7	OH	Struthers
	0230 WTEZ	92.9	PA	Wilkes Barre	12/19	0300 WAER	88.3	NY	Syracuse
	1630 WDEQ	91.1	OH	De Graff		1800 WSKG	89.3	NY	Binghamton
12/7	1230 WBOE	90.3	OH	Cleveland		2200 WWTQ	93.1	NY	Syracuse
	1650 WKAR	90.5	MI	E. Lansing	12/21	1620 WFGV	90.7	NY	New York
	1730 WBCI	90.3	IN	Pt. Wayne	12/29	1700 WITF	89.5	PA	Hershey
	1800 WKSU	89.7	OH	Kent	I started FM DX on 11/29/76. (Welcome to the world of FM DX -- you'll like it! - fjn)				
	1900 WQED	89.3	PA	Pittsburgh					

John Ebeling - 9209 Vincent Ave. So. - Bloomington, MN 55431

This past fall was very poor -- none of the good tropo conditions one usually expects in Sept. & Oct. So far this winter, I haven't had any Au to speak of. New underlined.

11/15 Tr 0012 KRPR 89.9 MN Rochester, r, 10w. 12/13 Tr 2247 KRGI 96.5 NE Grand Island

11/29 MS 0631 WMFC 99.3 AL Monroeville 1/2 Es 1714 KQTY 94.1 TX Beaumont, m, New CL

12/13 Tr 1155 KDCM 94.3 MN Windom, new sta. 2200 KRLG 92.9 AZ Flagstaff, r, New CL

Ralph Strobel - 2510 McCalliard Road - Muncie, IN 47303 (EST)

(This report is a continuation of Ralph's report from the previous page - fjn)

12/9 Tr	0111 WOTE	91.3	OH	Toledo, c	12/14 Tr	0052 WKQJ	93.5	OH	Bowling Green, r, Q-FM
	0112 WUOM	91.7	MI	Ann Arbor, c		0053 WAUP	88.1	OH	Akron, j
	0113 WCGL	92.3	OH	Columbus, p		0059 WAEZ	97.5	OH	Akron, m
	0114 WMHE	92.5	OH	Toledo, r		0100 WCCQ	98.3	IL	Crest Hill, m, s/off
	0115 WHFI	94.1	MI	Jackson, m		0137 WMAD	106.3	WI	Middleton-Madison, m
	0116 CPPL	95.9	ON	London, j	12/15	0017 WHOK	95.5	OH	Lancaster, k
	0119 WHNN	96.1	MI	Holland, r		0030 WSIU	91.9	IL	Carbondale, r
	0120 WJR	96.3	MI	Detroit, m		0045 WGRX	106.3	IL	Benton, p
	0122 WGCL	98.5	OH	Cleveland, r		0105 WLNR	106.3	IL	Lansing, g, s/off
	0125 WLOT	104.7	OH	Toledo, p		1730 WFPL	91.9	KY	Louisville, c
	0127 WJOK	106.7	MI	Jackson, r		1731 WPNE	89.3	WI	Green Bay, nx
	0128 WWWW	106.7	MI	Detroit, p	12/16	1820 WSTR	99.3	MI	Strugis, r
	0129 WBEA	107.3	OH	Elyria, m		2230 WETS	89.3	TN	Johnson City, c
	0130 WQPR	107.5	MI	Detroit, s	12/19	0010 WPRC	100.1	IL	Lincoln, m
	0131 WVXU	91.7	OH	Cincinnati, r		0700 WVCM	100.1	KY	Carrollton, k
	0131 WAMX	93.7	KY	Ashland, r	12/20	0033 WQWQ	104.5	MI	Muskegon, m
	0137 WLAP	94.5	KY	Lexington, r		0035 WQFA	94.1	IL	Watseka, m
	0139 WTAE	96.1	PA	Pittsburgh, r		0905 WFGH	90.7	WV	Fort Gay, r
	0143 WPAI	104.1	OH	Portsmouth, g	12/24	0907 WSAE	89.3	MI	Spring Harbor, nx
	0153 WKLR	99.9	OH	Toledo, r		0935 WFWA	106.3	IL	Sullivan, m
	0154 WBS	102.9	WI	Milwaukee, k	12/25	0101 WCSR	92.1	MI	Halledale, m
	0200 KLIK	103.7	IA	Davenport, r		2217 WIGB	102.9	MI	Ann Arbor, p
	0201 WJJD	104.3	IL	Chicago, k	12/26	0020 WFUR	102.9	MI	Grand Rapids, m
	0202 WOJO	105.1	IL	Evanston, e	1/3	1300 WUOL	90.5	KY	Louisville, c, new
	0204 WYEN	106.7	IL	Des Plaines, r	1/4	0218 WLRS	102.3	KY	Louisville, p
	0210 KMMO	90.7	MO	St. Louis, c		0257 WPLB	107.3	MI	Greenville, k
	0121 WBEK	91.3	KY	Lexington, c, s/off		1830 WRSF	89.9	OH	Miamisburg, r, 10w.
12/13	0000 WEXU	88.9	KY	Richmond, r		1900 WCWT	91.9	OH	Centerville, r, p, 10w.
	0015 WVMO	98.3	MI	Monroe, nx, s/off		2217 WNIL	95.3	MI	Niles, m
	0130 WNEB	93.3	IL	Peoria, r		2330 WQTE	95.3	MI	Adrian, m, "Cutie"
	0132 WQPM	93.3	WI	Milwaukee, p	1/5	1650 WQNC	89.1	IL	Naperville, r
	2300 WQRS	105.1	MI	Detroit, c		1710 WKTN	95.3	OH	Kenton, m
	2315 WPRF	105.9	OH	Middleton, j	1/6	0452 WIDR	89.1	MI	Kalamazoo, p, 10w.
	2330 WLEB	96.9	IL	Matoon, m		0500 WBGU	88.1	OH	Bowling Green, p
	2345 WHAD	90.7	WI	Delafield, nx		0501 WUPH	96.7	MI	Albion, g
	2353 WHYY	96.9	IL	Moline, r		0812 WYPE	88.1	IN	Elkhart, p, s/on
	2358 WJJJ	103.1	OH	Johnstown, NJ		0834 WSEI	92.9	IL	Olney, m
12/14	0000 WCLW	105.3	OH	Mansfield, r, s/off		1900 WTHI	99.9	IN	Terre Haute, m
	0030 WERN	88.7	WI	Madison, j, c	No Es noted for many months -- Ralph.				

Southern F.M.DX

Dave Cox
2007-E Brandywine Ct.
Birmingham, AL 35216

February 1977

Deadline: 10th

If you can believe it, DX in the South got even worse in December. This month, there was absolutely no FM DX reported. This apparently was caused by the cold, rainy, wintry, just plain miserable weather which was prevalent over most of the Southeast. A spokesman for the Atlanta office of the National Weather Service summed up the December weather picture as not being one with record breaking cold, but still one with below normal temperatures. Practically all weather fronts which affected the South were cold fronts that produced no DX, only rain, ice, and snow.

This month, we have another report from Hank Holbrook on his DX from last summer which we have been saving for bleak times such as this. Hank's report covers April, May, and June of 1976 and is not, of course, current DX. Maybe though, it will help remind us that things will be getting better soon, hi.

Hank Holbrook, 7211 Chestnut Street, Chevy Chase, MD 20015

EDT

DXing from our cottage at Fair Haven, MD overlooking the Herring and Chesapeake Bays 15 miles below Annapolis, MD. Receiver is a Scott 310E FM tuner with Blonder-Tongue booster. Antenna is a Finco 10 element single bay FM yagi with CDE AR-33 rotor. Antenna is about 110 ft. above the water as our cottage is situated near the top of a hill. Reception to the S and SW is blocked somewhat by cliffs so best trop reception is from N and NE.

4-24-76
tr 1904 WWOZ 94.3 Avalon NJ m; 300 miles
many oldies with PSA, wx & ads

4-25-76
tr 1207 WTR 104.1 La Plata MD k; 30mi.
2002 WPGT 90.1 Poanoke Rapids NC g; 180mi
hard to copy, WTB off air

5-29-76
tr 0716 WRCV 92.1 Mercersburg PA r; 100mi.
"Stereo 92, WRCV", QRM from
WLPL/WCTI/WOTS

5-31-76
tr 1134 WJLI 92.1 Moyock NC r; 160mi. NO DX
rare here. "Music Radio WJLI"

6-11-76
tr 0510 WKSS 95.7 Hartford CT m; 275mi.
"KISS, WKSS 96 - All music all
the time." They expressed sur-
prise as they mull in this dir-
ection. 50kw.

0759 WHPH 90.3 Princeton Junction NJ
140mi. only 16 watts!

6-12-76
Es 1307 WBTR 92.1 Carrollton GA 595mi.
1257 WABE 90.1 Atlanta GA g; 560mi.

Plenty of announcements for ID
WBTR & WABE first from GA here

6-15-76
tr 1216 WKTV 92.3 New York City r; 220mi.
good with antenna pointed on them.
Many NYC educational stns heard
daily at good strength. 94 kw
with ant. atop Empire State Bldg.

6-26-76
Es 1229 WUMQ 92.1 Hialeah FL L; 920mi. all SS
1239 WAMR 92.1 Venice FL 865mi. In til
1310 though WUMQ was the dominate
station on the channel
1245 WWRN 92.1 West Palm Beach FL 850mi.
In and out between WUMQ & WAMR
1242 WFTN 92.5 Key West FL m; 1030mi.

(My thanks again, Hank, for these old reports.
... dsc)

Don't forget to report the results of the winter Es season, and to start getting ready for the spring tropo season. Maybe temperatures will warm up soon and we can get an early start on those good old spring ducts. Til next month,

Best of DX,

Dave

Thank you for your order!



We're pleased that so many members have taken advantage of the new WTPDA REPRINT SERVICE in recent months. By anyone's standards, this new club institution has been a rousing success! We've received nearly 1500 pages of orders since our first catalogue was published in July! If you're new to WTPDA, reprints of past articles are a great way to get started in the TV-FM DX hobby. For more information, just see your copy of the catalogue!

WESTERN FM

Steven C. Wiseblood
707 Loma Way
Santa Maria, CA 93454
Deadlines: 10th

For FM Diers West of the MISSISSIPPI River!

Send in YOUR report TODAY!

Patrick Martin, P.O. Box 14192, Portland OR 97214 (PST) (7/16 - 11/30)

7/16 Tr 0315 KEUT 94.1 WA Seattle, KPDQ off 10/17 Tr 1100 KLCC 90.3 OR Eugene, J
8/9 Tr 0210 KZAM 92.5 WA Bellevue, KXON off 11/30 MS 2015 KQH7/104.1 SD Yankton, (EL) m
The MS burst of 11/30 was very strong for 15-20 seconds w/ Easy-Listening music. A couple of colleges are fighting over 87.7. KLYX-105.5 has automated album rock.

Jim Pizzi, 300 Park, Oremut CA 93454 (PST) (7/31 - 10/10)

7/31 Es 1455 KNCT 91.3 TX Ellice, ID @ 1500 8/2 Es 1444 KPAS 93.9 TX El Paso, g, mono
1514 KWED 105.3 TX Seguin. 1447 KEZB 96.3 TX El Paso, \$ m, (EL)
1518 KBER 100.3 TX San Antonio, m(EL) 1448 KLOZ 102.1 TX El Paso, \$ r
1519 KPWD 102.1 TX Fort Worth, FM-102 1449 KOPE 104.9 TX Mesilla Park, ID
1529 KSUC 88.3 TX Keams, ID 1451 KHTO 104.3 CHH Ciudad Juarez

Doug Everett, 1710 W. Maine, Enid OK 73701 (December 1976!) (CST)

6 Es 1041 KMTX 97.5 TX Waco, m 1400 19 Es 1737 KXJP 93.7 TX Mexico, m 1200
12 MS 2214 KPJB 101.1 IA Marshalltown 460 1750 KHSH 95.3 TX Mexico, rm 1200
13 MS 0006 KJSK 101.1 NE Columbus, ann. 750 1805 KBOY 100.9 TX Mexico, L 1200
19 Es 1710 KHBS 89.7 TX Mexico, c 1200 1807 KHJK 91.3 TX Mexico, ann. 1200
1712 KHM 88.9 TX Mexico, r 1200 20 Es 1845 KHRA 89.1 TX Guadalajara

Equipment used: KT-8007 tuner & 10-el FM yagi @ 35'
TV Es has been markedly improved in December, although much of it so far has been towards Mexico. MUF of 19 Dec stayed at 100.9 for over 1/2 hour. Very nice Tr dusting into IA & NE noted on UHF in December, but nothing too unusual on FM. (Get a pre-amp! -sw)

Pat Dyer, 5315 Silvertip Dr., San Antonio TX 78228 (CST) (7 Oct - 7 Jan)

Equipment: ALLIED 4261; BALLICRAFTERS SX-62 w/International Crystal SXL-1 preamp

11/17 Es 1838 CJOM 88.7 ONT Windsor, m (EL) 12/19 Es 1659 KLON 88.1 CA Long Beach, ID
1846 WGNU 89.5 MT Mt. Pleasant 1701 KDLU 88.9 CA Los Angeles, ID
Tr 1846 KYUP 95.3 TX Uvalde, ID 75 1932 KCSN 88.5 CA Northridge 1210
Es 1852 WVPE 88.1 IN Elkhart, F, ID 1935 KPCS 89.3 CA Pasadena 1195
1911 UnID 88.9, 90.9 12/21 Es 1834 XHNP 89.3 PUE Puebla, 735
1920 WNUH 89.3 IL Evanston, wa, ID 1955 KSDS 88.3 CA San Diego, J 1120
1923 WHEI 90.1 IL Chicago, g 1045 1955 KPBD 89.5 CA San Diego 1120
11/25 Es 1557 WVPE 88.1 IN Elkhart, r 1095 1958 KPSD 94.1 CA San Diego, o 1120
1559 CJOM 88.7 ONT Windsor, m (EL) 1802 KSDS 88.3 CA San Diego 1120
11/26 Es 1707 XHNP 89.3 PUE Puebla, m 735 12/25 Es 1812 KPCS 89.3 CA Pasadena 1185
1710 XHCN 88.5 MOR Cuernavaca 735 1812 KPBS 89.5 CA San Diego 1120
1713 XHM 88.9 TX Mexico 690 1812 XHIS 90.3 CA Tijuana 1100
1713 IBES 89.7 TX Mexico 690 1815 KPSD 94.1 CA San Diego, promo
1745 TO-- 88.1 GUAT Guatemala 1120 1815 KVID 93.7 CA Coachella, L 1070
1745 TGDK 94.9 GUAT Guatemala 1120 1815 KPOL 93.9 CA Los Angeles, m
1746 TGY 96.6 GUAT Guatemala 1120 1815 KMET 94.9 CA Los Angeles, p
1812 TORT 88.8 GUAT Guatemala 1120 1815 KJOI 98.7 CA Los Angeles, EL
88-89's in tail 1900. 1815 KOLA 99.9 CA San Bernardino
12/10 Es 1925 KBYU 88.9 UT Provo, o 1045 1815 KNOB 97.9 CA Long Beach, EL
1935 KUER 90.1 UT SLC 1080 1815 KMYT 98.5 CA Cathedral City
1945 KALL 94.1 UT SLC 1080 1815 KOTE 106.3 CA Lancaster, ad
12/18 Es 1628 XHNP 89.3 PUE Puebla, m 735 1832 KBBY 95.1 CA Ventura, r, ID
1630 XHM 88.9 TX Mexico, EL, m 1832 KLOS 97.5 CA Los Angeles, r
1630 IBES 89.7 TX Mexico 690 1833 KAPX 107.9 CA San Clemente, ABC
1630 KEDA 90.5 TX Mexico 690 1834 KROQ 106.7 CA Pasadena, p, ads
1630 XHOK 91.3 TX Mexico 690 1834 KNAC 105.5 CA Long Beach 1180
1638 XELP 93.7 TX Mexico 690 1834 KBCA 105.1 CA Los Angeles, ads
1639 XESH 95.3 TX Mexico 690 1839 KWST 105.9 CA Los Angeles, ads
1639 XHCN 88.5 MOR Cuernavaca 735 1847 KPMB 100.7 CA San Diego 1120
1644 XM 96.9 TX Mexico, r, W-FM 1847 KDIO 98.1 CA San Diego 1120
1645 XELA 98.5 TX Mexico, c 690 1847 KPSG 96.3 CA Los Angeles 1190
1649 XERC 97.7 TX Mexico 690 1903 KLYX 96.5 CA San Diego., EL
1649 XHOP 99.3 TX Mexico 690 1922 KPRI 106.5 CA San Diego, r, ads
1650 XHCP 105.7 TX Mexico 690 28 Es 1730-1745 UnID 88.1 Latin mx (GUAT?)
1650 XHD 106.5 TX Mexico 690 1/1 Es 1825-1840 UnID through 106.7
1715 TO--? 88.1 GUAT Guatemala 1120 1/2 Es 1655 WIAA 88.3 MI Interlochen, c
1726 TGY 96.6 GUAT Guatemala 1120 1656 WGNU 89.5 MT Mt. Pleasant 1235
1735 TGDK 94.9 GUAT Guatemala 1120 1659 WPRE 89.3 MI Green Bay, ID
1735 TORT 88.8 GUAT Guatemala 1120 1659 WEEN 88.7 MI Madison (//89.3)
Pats report continued next month!

AUTOMATED ^{FM}MS DX

Peter Sawatzky
244 Neilson Ave.
Waterloo, Ontario
N2J 2M3

Part 2 of 2

In the last installment of this article a description was given of a technique designed to log ID'able meteor scatter based on the principle of "taping" automatically on locally "quiet" channels at times of highest ID probability.

The system now to be described differs significantly functionally from that previously described. It should be noted that the previous system was compatible with any receiving system, i.e. it did not depend structurally on the type of receiver used with regards to any special electrical signals derived from same. This system, on the other hand, while more closely approaching the ultimate goal of taping all MS, and virtually, only MS, has the drawback that a single design is not necessarily compatible with all types of receivers, the reason for this being that the signal used to detect MS is derived from the stereo pilot lamp. For this reason, I shall not attempt to present any specific circuitry, but rather to demonstrate what is for the moment being attempted.

Since TTL logic circuitry, the circuit is basically designed to perform the following "OR" function (as can also be seen in Fig. 1): A tape recorder whose "auxiliary" input is connected to the "tape output" of the receiver is caused to remain idle (i.e. not recording) with the recorder key in record mode under 1 or more of the following conditions:

1) When the stereo pilot lamp is off

OR

2) From 20 seconds after the stereo pilot has been turned on until the next time that it turns on again after an interruption

OR

3) For a 15 minute period after the pilot lamp has turned on a prechosen number of times within a prechosen period of time

To explain all this:

#1 is obvious: when the stereo pilot lamp is off, no signal is present, at least not from a stereo station. Therefore, we do not want any recording to be done.

#2 is explained as follows: Let us assume that virtually all MS receptions are of a duration below 20 seconds. Therefore, if the stereo pilot lamp remains on for more than 20 seconds continuously, we can assume with reasonable confidence that what we have is not MS, but possibly an unanticipated Tr reception on the chosen channel (probably not rare DX that would be wanted or taped), an anticipated spillover from an adjacent frequency, local electrical noise triggering the stereo pilot lamp, or one of any number of other things which is not desired on tape in the quest for ID'able MS. Feature #2 is also useful for monitoring frequencies which are occupied by daytime only locals. At most only 20 seconds will be taped of the local before it goes off, the night will be spent normally taping MS, and only the first 20 seconds will be taped of the local when it goes back on the air.

#3 has grown itself to be a particularly useful function when monitoring by this method or frequencies occupied by stations which are in the 150-200 mile range. These stations are not desirable on tape but occasionally surface above the stereo threshold. We know that MS comes in more or less discrete bursts, not generally great in number per unit time. Weak Tr (of the non-distorting variety), however, has the tendency frequently to flutter in and out with some semblance of periodicity. This phenomenon is particularly noticeable with airplane scatter. We could say, under most circumstances, that if we were monitoring one of the previously mentioned channels and the stereo pilot lamp turned on and off, say, 10 times in a 15-second period, what we were receiving was not MS, but Tr of the type described. As this mode of propagation has a tendency to linger it would be desirable to disable the tape recorder entirely for 15 minutes or so. As well as omitting the taping of Tr, this function also frequently deletes local electrical noise which may cause the stereo pilot lamp to react in a similar fashion.

It should be mentioned at this point that features 1, 2 and 3 presuppose that the receiver in question has a stereo threshold adjustable to a point just above the noise level. The tuner for which design was originally intended was the Heathkit AC-15 which meets this specification satisfactorily. The 20 seconds and 15 minutes are, of course, periods of time which were chosen somewhat arbitrarily, based only on past

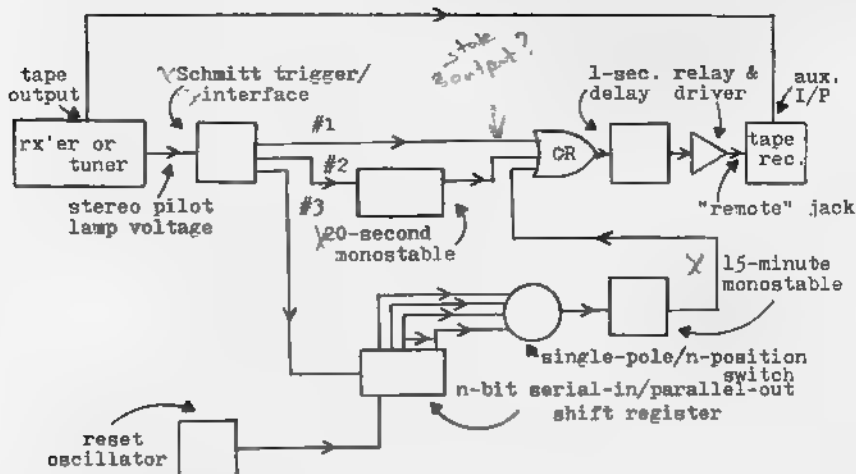


FIG. 1

experience and personal preference.

Having now discussed the basic function, let us take an overall look at the system (Fig. 1).

The stereo pilot lamp provides the signal to be processed. An interface to condition the voltage for TTL compatibility is required as well as probably a Schmitt trigger to speed up rising and falling voltage levels to improve the noise level during switching.

Function #1 is accomplished straightforwardly with the signal simply fed to the OR gate. Function #2 is accomplished with a non-retriggerable 20-second monostable (using a 555 timer) and this signal is again fed to the OR gate.

Function #3 requires somewhat more circuitry. The signal from the interface is fed to a serial-in/parallel-out n-bit shift register. An n-position single-pole switch (non-shorting) chooses the appropriately significant output bit and relays this to a 15-minute non-retriggerable monostable (again a 555) and from there again to the OR gate. A reset oscillator clears the shift register periodically. The reset oscillator performs the function of setting the "predetermined time" within which stereo pilot lamp "bursts" will be counted, and the single-pole n-throw switch performs the function of setting the "predetermined number" of bursts within that period of time. Providing the predetermined number is never reached within the predetermined time, the 15-minute monostable will not disable the system. Flexibility of the system is greatly enhanced by making the frequency of the reset oscillator variable (1 pulse/15 sec.; 30 sec.; 60 sec.; and 120 sec. was used) and the addition of the n-position single-pole switch (bits 3-14 were used with a 12-position switch). This flexibility is desirable during meteor showers and also to accommodate local signal conditions on different frequencies.

Once all 3 functions have been achieved and fed to the OR gate, it is useful to add a one-second delay circuit such that the tape recorder does not stop immediately after an MS burst, because weak remnants of the MS may still exist immediately following the point at which the stereo pilot lamp can no longer recognize a signal. At the expense of 1 second of tape time it would be well advised to tape these probable remnants for the possibility of ID's. Another reason for the delay is to ensure that the tape recorder does not turn on and off repeatedly when a string of bursts is recognized. The tape recorder has a certain start-up time and under some such circumstances, on playback, nothing readable might be heard without such a delay circuit.

The delay circuit drives a relay which turns the tape recorder on and off (in the case of cassette recorders) via the "remote" jack (the smaller of the 2 jacks that microphones plug into).

To allow the operator to recognize what is happening throughout

the circuitry at any time, it is good practice to have front-panel LED's. Under heavy meteor shower conditions it is also desirable to make features #2 and #3 defeatable.

This block diagram description is merely intended to offer the reader insight to the approach taken by this DX'er and in no way intends to show specific circuitry and logic levels throughout. A thorough description of one such circuit already built would involve considerable more space than is economical in the VUD. Hopefully, however, it will stimulate sufficient interest with some DX'ers familiar with TTL logic to encourage them to design a similar system. Earlier systems have been attempted incorporating only feature #1, but an unacceptable amount of Tr is taped in this manner on all but a very small number of totally quiet frequencies.

One obvious disadvantage of this entire approach is the fact that it is impossible to tape monaural MS. This problem is, of course, not found in the system described in the previous article. Both techniques have been tried and it has been found that the system described in this article yields a high degree of initial success in terms of new MS loggings (an average of nearly one new MS logging per week for an initial 10-month period, plus numerous MS relogs). However, before long, it appears that relogs become increasingly more frequent as the number of frequencies suitable for monitoring by this technique is fairly low in most areas. The technique described in the previous article, of course, permits one to monitor frequencies adjacent to locals in spite of spillover causing stereo pilot lamp triggering and other frequencies unsuitable in general for the circuitry described here. Spillover, etc. would cause the tape recorder to be turned off most of the time despite possible incoming MS with the technique described herein.

Both techniques suffer the problem of not being able to pinpoint the time at which an MS reception was made. This problem can be entirely solved with the previous technique by using a stereo recorder and simultaneously recording WWV on one channel. But with the technique described here this is not as easily done as taping does not always occur when a voice time check is provided by WWV.

The photographs below show finished versions of the systems described in this and the previous article.

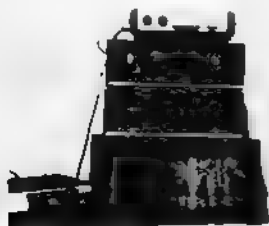


FIG. 2a - Front view

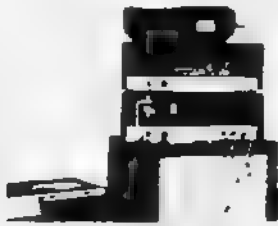


FIG. 2b - Rear view

MS taping equipment showing, from top to bottom, cassette tape recorder, MS tape unit described in Part 1 of this article (including digital electronic clock), and MS tape unit described in this article (Part 2).



AT THE TOUCH OF A BUTTON...you can switch from American to British and European television standards and back again, with this miniature television set by Sinclair Radionics which will be on the market by the time you read this. It's 4 inches wide, 6 inches long and 1.5 inches deep, and is billed as the world's first multistandard TV receiver! Priced at about \$300, it should be a real DX bargain when F2 starts to bring in European television! Our thanks to members Dave Cox, Ken Simon, and Tom Yingling. CWI

C.C.I. [UNIDENTIFIED DX]

Frank Aden, Jr.
1535 NW Ithaca
Bend OR 97701
503-389-5488
Deadline: 16th
FEBRUARY 1977

Send all your unidentified DX here!

Doug Everitt, 1710 W. Maine, Enid OK 73701 (1976 unIDs)

Sun Dec 12 MS ch 3 0111 CST--"Canal 3" ID slide with musical tones. Ant. west. XHEC?
XHEC schedule shows them on to 0200 CST with movie, I have seen them run more "Canal 3" IDs than XHEC IDs but still is hard to say if this is them (FEA).

Frank Aden, Jr., 1535 NW Ithaca Ave., Bend OR 97701 (1976 & 1977 unIDs)

Sun Dec 5 MS ch 3 1224 PST--Wedge type TP with grey background. Call letters or other written information in upper left hand corner. Ant. east.
KINE reports it is not them. No other ch. 3 schedules would have them running a TP at this time. Suspect central US & Canada (FEA).

Wed Dec 22 MS ch 3 2202 PST--Ad for "Braune". Is this company name familiar to anyone? Suspect Central US and Canada as ant pointed east.

Fri Jan 7 MS ch 3 2354 PST--CB with digital time in lower right corner. Time on TP was 0054 MST 1554 but seconds unknown. Three bursts were seen with 0154 CST antenna pointed east. Could this be an AST station or were 0254 EST they messing with the clock? Anyone have any ideas?
0354 AST

Mike Reid, 109 Arjay Cres., Willowdale ONT M2L 1C6 (1976 unIDs)

Sat Aug 21 TR ch 5 0616 EDT--"I Love Lucy" to 0622. VA, DC were in that morning. All schedules for ch. 5s in this area are negative (FEA).

Thu Oct 7 MS ch 4 0449 EDT--Spot for "The Best Deal". Illinois heard. Ant. WSW.

Tue Oct 12 MS ch 4 0559 EDT--Sign on? KIT-35. STL call? (Probably FEA). Ant. South.

Identifications

Sept. TV-CGI, Paul Gaines, June 28, ch. 5, 0030 EDT. KXAS definitely. Mike Reid reported he watched this for quite a while.

Oct. TV-CGI, Morris Goldman, June 29, ch. 3, 0017 GDT. Mike Reid reports this is not CKVR as Canada uses Gelcius scale.

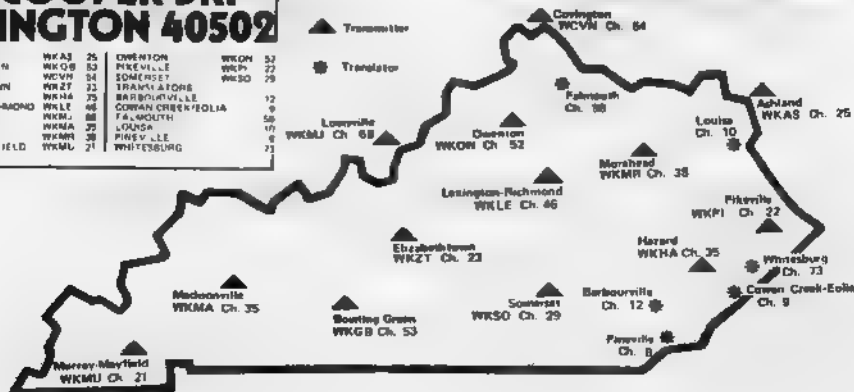
Regional Networks.

KENTUCKY Educational Television

Watch KET and let it change your life

KET
600 COOPER DR.
LEXINGTON 40502

AS. LAND	WKAS	25	OWENSON	WKON	52
BOWLING GREEN	WKQB	53	PIKEVILLE	WKUP	27
CIVINGTON	WKVN	54	SOMERSET	WKSO	29
ELIZABETH TOWN	WRZT	22	TRAVERS FORGE		
HAZARD	WKNA	29	BARBOURVILLE		12
LEXINGTON-RICHMOND	WKLE	46	CORRAN CREEK-FOOT		59
LOUISVILLE	WKMA	35	FALGOUTH		17
MADISONVILLE	WKMA	35	LOUNGA		0
MOREHEAD	WKMR	38	PIKEVILLE		27
MURRAY MAYFIELD	WKML	21	WHITESBURG		



(continued on page 22)



VHF UTILITY DX

Pat Dyer
5315 Silvertip Drive
San Antonio, TX 78228
Deadline: 10th of month

FEBRUARY 1977

Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20015 GNT, QSLed

<u>7-21</u>	1907, C.G. 1393	119.7	nr Bal. (Coast Guard HH52A helic. 25 w)
<u>8-9</u>	0825, KXR 71	156.54	Bal. (Baltimore Maritime Exchange)
<u>12</u>	1353, KHBA	157.3	off Annapolis (EXXON HOUSTON, Tanker)
<u>18</u>	1949, N481A	119.7	27 mi s Bal. (Altair Airlines, Inc., Flt 56; NORD-262; 29-passenger; 25 w) (Braniff Flt 17, NY-Dallas; 25 watts) 25 mi w NewCastle, DE (Braniff Flt 2; 25w) 18 mi se Wash N'tl Apt (Fairway Corp., Beechcraft 99; 2-eng turbo, 15-pas.; 8 w) nr DC (J. Ray McDermott & Co., Inc., Falcon Fan Jet 20, 2-eng, 12-s; 20 w) n McGuire AFB, NJ (General Thermodynamics Corp.; Beech J-35, 1-engine, 5-seat) vic West Minister, MD (Midland Glass Co., Inc.; Falcon Fan Jet, 2-e, 12-s) n Roanoke, VA (Piedmont 74; 737; 30 w)
<u>2-25</u>	1540, N7276	132.85	
	1559, N7292	132.85	
<u>10-15</u>	2120, N444T	119.1	
<u>16</u>	1658, N70MD	134.4	
	2058, N636Q	122.2	
<u>17</u>	1448, N701MG	131.0	
<u>22</u>	2139, -	127.95	

David Cox, 2007-E Brandywine Ct., Birmingham, AL 35216

Reports as of Dec 9th that the new weather station in Birmingham, KIH 54 on 162.55 MHz was on 24 hrs/7 day for the past several weeks; test transmissions with very complete ID's every 3-5 minutes; antenna is "atop" WBIQ-TV's.

Now, my loggings. Allied A-2586, Hallicrafters SX-62, Hammarlund SP-600-JX10; two 30' long-wires at 12' (ne-sw, nw-se runs); all are Es except * F2 daily MUF peak; GNT used

<u>12-12</u>	1440, 30.30 *	
<u>15</u>	0315, Los Angeles, 35.38, Mobile phone	
<u>19</u>	1530, 30.30 *	
<u>20</u>	1938, KIN 645 35.22 Miami, FL (tone pager)	
<u>23</u>	2040, Los Angeles, 35.46, mobile phone	
<u>26</u>	1820, 30.02 * (Canadian medical pager)	
<u>27</u>	0245, KSC 645 35.58 Chicago, IL (tone pager)	
<u>1-1</u>	0710, Los Angeles, 35.38	
	0712, Los Angeles, 35.46	
<u>4</u>	1910, Los Angeles, 35.46	
<u>5</u>	1646, KOE 257 35.22 Phoenix, AZ (tone pager)	

Canada operates a hospital paging service on 30.02, 30.22, 30.42. It's a tone alert with voice messages. Any members with more info on them? I've never caught any ID's on them, just doctors names, ward numbers, etc.

WWV pronouncement - effective February 1 the outlets on 20 and 25 MHz will become mute. The 2.5-MHz outlet has been "saved". WWVH will keep 20 MHz alive with its signal. It is regrettable that such useful propagation indicators have been lost. They did serve as well in F2 as Es conditions.

73, Pat WASIYX

QUESTIONNAIRES STILL NEEDED...We're not yet giving up hope that you'll return your WFFDA MEMBER SURVEY, which was included with your July 1976 VUD and has remained dormant since that time. Any DX club needs the participation of its members to prosper, and we need your opinions and comments to determine future policies! We've been holding the survey results until a majority of WFFDAers have returned the postpaid cards; at this writing, we need those of 24 more members, and are hoping that yours will be one of them! It'll take you no more than ten minutes to fill out your card and indicate WFFDA's weaknesses and strengths, and it will be appreciated! If you've ignored the survey until now, have been busy with other things, or simply forgot, please send your survey in today! —CWI

QSL CORNER

FM-QSL Freq.

DE WJRR 99.5 Wilmington, 2617 Ebright Rd, 19810, send qsl card in 4 days. (tjy)
VA WKEZ 95.7 Norfolk, 720 Boush St, 23510, letter from John B. Zaun, manager of Engineering in 5 days. New call for WTAR-FM. Letter on WTAR-FM letter head paper. (tjy)

TV-QSL Ch.

IL WTTW 11 Chicago, 5400 N. St. Louis. Ave, 60625, Letter from Larry W. Ocker Chief Engineer. Reply in 4 days. (jdh)
IN WLFI 18 Lafayette, P. O. Box 18, 47902, note on returned report, hard to read looks like Robt Handle, Dir. of Engineering. Reply in 43 days. (jdh)
IN WILL 38 Terre Haute, Box 719, 47808, Letter from Mary C. Childers, promotion manger. Reply in 16 days. (jdh)
Ont. CKCO-3 42 Wallaceburg (site at Oil Springs, Ont.), varie on glazed paper, with information of CKCO-TV ch. 13, CKCO-2, CKCO-3, CKCO-4, CFCA-FM stereo, & CKKW-AM 1090khz. No signature. Report send 4-5-76, varie received 11-5-76 a total of 214 days. Address is Central Ontario Television Limited, 865 King St., Kitchener, Ont. N2G 1B9, Canada. (fw)



Reporters are John D. Hathaway of Champaign, IL, Frank Wheeler of Erie, PA, and me. The above dial card is from my collection. I hope to have more contributions once more members send in their reports to the new qsl column. I also hope to have some more reports for right now I'm out of items for the column. Please report something. I did get a new typewriter, for my old one traded in for a Olivetti. 73's to later on. *Tom*

PSB DXers!

On behalf of Tom Yingling, I'd like to encourage you to send in some of your QSL's to the new QSL CORNER. PSB QSL's are often difficult to come by, as detailed by Terry Colgan in a past series, since public service stations aren't interested in casual listening; they exist only to provide information (i.e. private point-to-point communication) in emergencies. Air and sea QSL's may be the most difficult of all! We'd also be interested in knowing if anyone has managed to obtain QSL's from any of the dozens of NOAA Weatheradio stations across the United States; these low-power outlets are among the easiest PSB targets to ID, with station identification typically coming every 5-7 minutes, and location (i.e. street address) given frequently. Although some PSB stations forbid divulging of information heard (under the Privacy of Communications Act), it can often be avoided by providing just enough info to secure the QSL. So whatever your PSB QSL's, send them in!

INCREASE YOUR STATION TOTALS
BY UNDERSTANDING POLARIZATION
PART I

This series, originally presented as a lecture at WFD's 1976 Convention, basically is divided into three parts: first, exactly what polarization is; second, what we know about polarization at TV and FM frequencies; and most important of all, how we can take advantage of what we know, so that we can indeed increase our station totals as described in the title.

What is polarization? I suppose we should immediately go to the dictionary definition and determine that it is "the direction of an electromagnetic field as radiated from a transmitting antenna." It's very difficult to illustrate this concept in a single plane, but we have attempted to do so with the drawings on the next page.

Figure 1-A shows a folded dipole transmitting antenna, which because of its length is inherently cut to a specific frequency. It radiates an electromagnetic field in its horizontal plane, and only in that plane. We call these signals that are radiated only in a single plane linearly polarized.

Practically, if a transmitting station wanted to transmit that type of signal in all directions, it would have to utilize a turnstile, or use two folded dipoles crossed by about 90 degrees. In that manner, the electromagnetic radiation would still be in the same plane, but would be radiated in about 360°. This gives us what we call an omnidirectional pattern. Some of you may be familiar with such an antenna for FM also, which is an attempt to receive signals from all directions. The turnstile arrangement is shown in Figure 1-B.

The other way we can go, and the one we're most familiar with is the AM antenna, which is said to be vertically polarized (Figure 1-C). If you were to place a folded dipole perpendicular to the ground, the radiation is still broadside to the dipole, but because it is vertical, it is automatically radiated in all directions (360°). This, of course, is the reason why car radio AM antennas are situated in that direction, and most FM car antennas are unfortunately are that way as well.

An analogy for this difference between horizontal and vertical radiation would be driving into a private parking area and putting your parking card into the slot. The slot has to accept the card in one plane, it simply cannot enter any other way. A coin and a vending machine work similarly. The importance of this analogy, and of having everything properly aligned, will be discussed shortly.

If we look at that same horizontally polarized transmitting antenna, keeping it in the same plane, and place a dipole receiving antenna in the same plane, then tie a field strength meter (FSM) to it, we will receive a certain amount of signal, depending upon power transmitted, and so forth. But we find that we can rotate the receiving antenna through a certain amount of angular displacement, perhaps about 40 degrees, and the signal appreciably remains the same. This is primarily due to the capture effect of the receiving antenna, and the height of the transmitted wave. So, we need not align the antenna perfectly in the plane of the radiation; the signal will remain reasonably the same otherwise (an arbitrary signal level of 1000 microvolts has been chosen for the example in Figure 2-A).

However, if we take the receiving antenna and rotate it 90° in free space, the signal theoretically will drop off by a factor of nearly thirty to one. Therefore, in the example shown by Figure 2-B, we now have perhaps only 30 microvolts. So, we severely decrease the signal in this manner, and we can rotate that antenna through quite a wide area with much-reduced signal, until we reach a direction about 40° from the transmitting plane. The conclusion of all this, of course, is that the receiving antenna must remain in the same plane as the transmitting antenna for maximum gain.

The polarization of TV and FM stations in the United States basically fall into these two categories: For TV, basically, horizontal is used. This is why, if you drive around town and look at TV antennas, they are standard in that the elements are all parallel to the ground. For FM, some stations transmit horizontally-polarized-only signals, but the majority radiate signals that include both horizontal and vertical polarization. I say include because they may be circular, they may be elliptical, but the end result is that they send out signals that are, in fact, both horizontal and vertical.

The big "push" to vertical polarization for FM stations began, in earnest, perhaps five or six years ago. During that time, a lot of DXers could have taken advantage and received a lot more stations, if they had known which were horizontal and which were both horizontal and vertical. With vertical, the stations are obviously aiming at cluttered areas in cities where listeners may have a line cord or no antenna at all; and in many cases, stations didn't put out as much power in the vertical plane as in the horizontal.

Some of you have probably heard about the circular polarization tests at WLS-7 in Chicago. As opposed to linear polarization, circular polarization is one in which the polarization is constantly changing--from horizontal to vertical and everything in between. Basically, it is constantly rotating. An analogy might be a screw being turned to hold a piece of wood in place. The theoretical advantages of circular polarization, which agree with those proven by the WLS tests, is that in extremely cluttered areas with tall buildings, etc., ghosting is immensely reduced. There has been no evidence that the range of the station has been extended, although most of us feel that it will be.

So what does all this mean to the DXer? Well, he doesn't particularly care whether or not he can receive ghost-free signals if he lives in a cluttered city area--he doesn't care about locals whatsoever. But the possibility of more stations going to circular polarization can open up a tremendous new amount of avenues for DXers, and increase their totals immensely, as will be shown later.

For the moment, though, let's just say that the circular polarization tests have proven to be beneficial in eliminating ghosts, particularly in areas where there are tall buildings. A trade publication article which attempts to show how this is done basically shows a "cancellation" effect, with the end result being that ghosts are reduced. I won't spend any great deal of time discussing the effect here, as it is probably of minimal use to DXers.

Next month, Part II of this series will discuss how polarization relates to TV and FM, and some of its peculiarities.

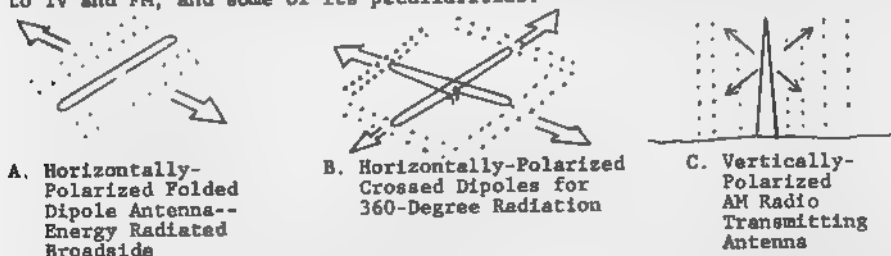


FIGURE 1. DIRECTION OF THE ELECTROMAGNETIC FIELD FROM TRANSMITTING ANTENNAS

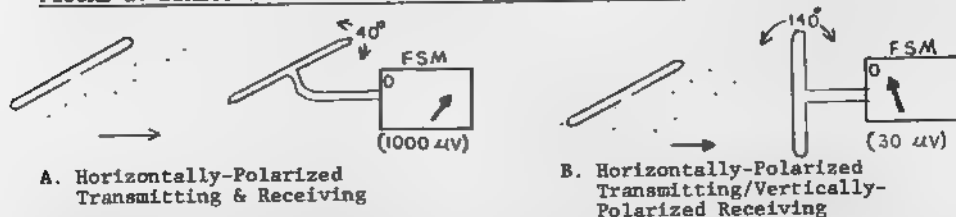
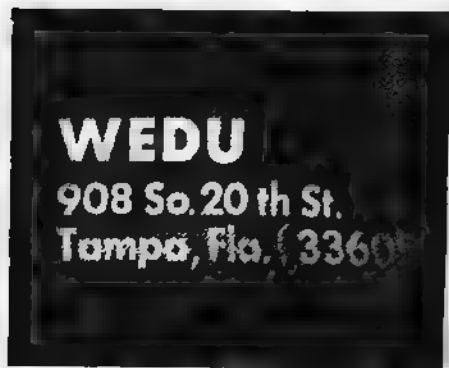


FIGURE 2. EFFECTS OF POSITIONING RECEIVING ANTENNA WITH RESPECT TO TRANSMITTING ANTENNA



WEDU- 3 Tampa, FL
Es (FG)



KIII- 3 Corpus Christi, Tx
485 mile tropo (RL)



KTRK-13 Houston, TX
320 mile tropo (RL)



WKOW-27 Madison, WI
315 mile tropo (FG)



KBTX- 3 Bryan, TX
Es (KS)

WANTED: More photos of DXers, antenna systems, and DX "sharks"

Contributors:

- FG = Paul Gaines,
Detroit, MI
- RL = Ron Le Blanc,
Marrero, LA
- KS = Ken Simon,
West Palm Beach, FL

73 and good DX,

Jim

CANADIAN NEWS REPORT

Welcome to another edition of the Canadian news column. In spite of M. Lewis' relocation to the CRTE in Ottawa, technical information re: stations is still hard to come by...the D.O.C. compiles all the lists. Many CBC "A.M. Network" rebroadcasts are going on-air over F.M. transmitters, some have a "mix" of the CBC Am and Fm networks, carrying the Fm net. from 6-9 a.m., 4-6 pm, with the "AM" network the rest of the time. Some stations heard carrying the "mix" plus a special "regional" network. ie. CBCN-fm North Bay, Ont., heard with the "Mid-Canada" network from 6-9 am.

Mark L. Lewis
701-345 Waverly St.
Ottawa, Ont. K2P 0P4
J.J. Rosenberg
909-40 Godstone Rd.
Willowdale, Ont. M2J 3G7

FM RADIO

Newfoundland: The following stations will have a "Top-40" format. Licensee: Nfld. Bcing. Co. All authorized for 67khz SCMD probably programme relay & telemetry.

St. John's	93.9	100,000 watts
Maryatown	96.3	31,330 "
Gander	99.9	4,000 "
Corner Brook	92.9	30,600 "
Red Rocks	96.9	1,120 "
Argentia	100.3	3,650 "
Bonaville	92.1	28,580 "
Battling Brook	95.9	3,430 "
Stephenville	98.5	4,270 "

Nfld. St Albans	99.1	78 Watts
Rames	95.5	779 "

Some other new calls issued:

Orillia Ont. CBCO-fm (ex. CBL-am)
Brockville Ont. CBOF-fm-7 (Ex. CBOF)
CBOB-fm (Ex. CBO)
Penetanguishine Ont. CJCB-fm-20
Peterborough Ont. CHEX-fm now: CFMP-fm
CKPT-fm (new)

Montreal: CFWL-fm now CPOI ...pronounced "cuoi" (ifs: C'est cuoi? C'est Cufbec- ois!)

Both relays of CRN (am) St. John's

PRINCE EDWARD ISLAND

Charlottetown CBC-FM 59.2 watts to 92,500watts to relay CRN(am) Halifax plus local.

NEW BRUNSWICK

Fredricton /St. John	101.5	100,000 watts	stereo	CBC-"FM" network
Moncton	103.9	24,600 watts	stereo	Rock Island Bcing Co.
Moncton				CKCW-fm new calls: CPQM-fm

Nova Scotia Halifax CJCH-fm 100.1 exp to 100,000 watts stereo

Québec

Trois-Rivieres	93.9	28,800 watts	educational semi-commercial
Joliette	103.1	4,000 "	denied
Rouyn-Noranda	96.5	51,000 watts	Radio Nord. Partly Local-commercial.
Lithium Mines	97.3	52,000 watts	partly CBF- am relay
Montreal	CINQ-fm 99.3	7.2 w. NOW: 102.3	36 Watts "Radio Centreville"
Drummondville	CFDM-fm	now relay of CBF-fm(Montreal)	Calls will change, when sold to CBC.
La Pocatière	CHQB-fm	affiliates with CBC fm-FRnetwork (CBF-fm Montreal)	
Québec City	CHRC-fm	now CHOI-fm	
Québec City		104.7	100,000 watts ex. CEM-am Montreal
Montreal	CEM-fm	95.1 moves to 93.5 (now change FRP/ant.)	(adds 67khz relay CEM-am)
Montreal	CBF-fm		
Quebec City	CBV-fm	all add 67khz SCMD to relay CBC-AM-French Network	
Chicoutimi	CBJ-fm		

Ontario

Ottawa	CKCU-fm 93.1	was 4,000 watts	Now: 12,500 watts 852' (Ryan Tower, P.O.)
Ottawa-Hull PQ	CKCH-fm 94.9	now CIMF-fm (Prog. Rock—calls pronounced "C" "ZE" "M" "P")	
Brampton	CHIC-fm	now CFMY—adds \$, still 857watts, re. for 100kw denied by CRTE	
Toronto	CFGM-fm 107.1	100,000 watts	Prog. Rock \$(spring '77 target)
Toronto		99.1	100,000 Canadian News Radio Network target '78—see below
Toronto	CHIN-fm 100.7	4,000 watts	rq. for 107.1/100kw, denied—see CFGM-fm
Wingham	CKNX-fm 101.7	22,000 watts \$(MOR format)	Target Spring 77.
Coburg	CFMX-fm 103.1	100,000 watts \$(Target spring '77
Barrie	CHAY-fm 93.1	50,000 watts \$(67khz scmd-fr. lang pkms)
Sudbury	CKSO-fm	new calls: CIGM-fm	
Sudbury	CBCS-fm	CBC-Eng AM net/ CBC "mid Canada network" Mono	
Sudbury	CBJS-fm	CBC-Fr. AM net	
Timmins	CKGB-fm 94.5	425 watts	Now: 92.1, 17,220 watts, new site. CFTI-fm
North Bay	CBCN-fm	CBC-Eng AM net/ CBC "mid Canada network" Mono	
North Bay	CBJN-fm	CBC-Fr. Am Net.	
Corwall	CJSS-fm 104.5	was 850 watts	now 9,700 watts, new calls: CFWL-fm

Cornwall	CBQC-fm 95.5	on air: relays CBO-fm 6-9am/4-6pm, CBO-am other times
Cornwall	CBQF-fm-1 98.1	on air: relays CBQF-am CBQF-fm at different times
Chatham	CBEE-fm 95.1	35,500 watts relay of CBF-am Windsor
Sarnia	CBEG-fm 106.3	50,000 watts relay of CRF-am Windsor
Ottawa	CHEZ-fm 106.1	100,000 watts \$ Prog. rock Target Feb. 77 Evan Tower
London	93.5	100,000 watts ex. CBL-am Toronto/ CBL-fm 6-9am 84-6pm
Jurlington	CING-fm 107.9	50,000 watts \$ calls itself "sing stereo 108"
Kenora	93.5	20,000 watts ex. CKSB St. Boniface Man. CBC-AM-Fr.
Dryden	102.7	1,500 " " " "
Dryden	100.9	100,000 " Ex. CBO Thunder Bay, CFW Winnipeg CBC-AM-Eng
Sioux Narrows	95.7	1,300 " " " "
Savant Lake	104.9	78 Watts " " "
Osnaburgh	104.5	81 " " "
Pickle Lake	105.1	83 " " "
Pikangikum	100.3	34.2 watts " " "
Sandy Lake	101.1	36.9 " " " "

MANITOBA

Winnipeg	CFMG-fm 94.3	was 6,500 watts now 100,000 watts
Brandon	97.9	100,000 watts CBC AM & FM English Nets mix.
Baldy Mtn.	105.3	95,000 watts ex. CBW Winnipeg Eng. AM net.
Fairford	104.3	11,800 watts " "
Fisher Branch	95.7	5,400 watts " "
Jackhead	92.7	33,000 watts " "

SASKATCHEWAN

Regina	CBKF-fm 97.7	to: 13,700 watts ehast 501 feet
Regina	96.9	100,000 watts CBC PM Eng. net. \$tereo
Fond Du Lac	100.1	779 watts ex. CKK Regina CBC AM Eng.
Black Lake	93.3	1,360 watts " "
La Ronge	CBKA-fm	adds local studio originations for community groups.
Stanley Mission	95.5	216 watts ex. CKK
Pinchouse Lake	94.1	86 watts ex. CBK

ALBERTA

Calgary	CBRF-fm 103.9	10,000 watts ex. CHFA Edmonton CRC PP AM
Peace River	CKFA-1 96.9	100,000 watts CKFA-fm
Grand Prairie	100.9	100,000 watts ex. CBC AM Edmonton (CBR)
Lechbridge	CHFA-1 104.3	1,660 watts ex. CHFA Edmonton CMC PR AM
Lechbridge	CBRX-fm 100.1	110,000 watts ex. CBF-am/ CBR-fm Edmonton
Chateh	103.5	122 watts CBC Edmonton Eng. AM
Calgary	CFPC-fm	new calls: CJAY-fm
Calgary	CFVP-fm 92.1	74,000 watts \$tereo
Cranmore	97.9	70 watts CBR-AM Relays
Pincher Creek	97.5	44 watts " "
Exshaw	100.7	138 watts

BRITISH COLUMBIA

Alert Bay	105.1	77 watts ex. CBU-am CRC Vanc.
Woss	92.9	125 " " "
Vancouver	94.5	38,000 watts—CFM LTD applicant: DENIED
Lytton	CFPM-6 106.1	5 watts
Hope	107.1	136 watts ex. CBU-am Vanc.
Kelowna	95.7	4,700 watts ex. CBU-am
Penticton	93.3	1,800 watts relay of Kelowna above
Vernon	105.5	1,880 watts " "
Kamloops	94.1	4,750 watts relay of CBU
Golden	101.7	120 " " "

N.W.T. Eskimo Pt	CRIG-fm & Igloodit	CBII-fm add local studios
Port Radium	105.1	82 watts ex. CFYK Yellowknife

The CRTC has issued a license to a new group of stations which will broadcast all-news. Several frequencies have not at this date been determined. The 67 kHz SCMO will "broadcast" visual alpha-numeric news, possibly with commercials included. As much is subject to change, ie: exps, here is a partial listing of frequencies:

London On. 99.3 Halifax...unknown; St John NB. 98.9; Winnipeg Man. 99.1; Montreal 98.5—(denied no station) Vancouver 96.1; Edmonton 105.9; Calgary 103.1; Regina Sask. 94.5; St Johns Nfld 101.9. ---no calls issued yet.

More From Québec: Camp L-G3 James Bay	100.5	115 watts Fr. Lang
Trois-Rivieres	100.1	4,326 watts ex. CBF-am
Povungnituk	90.0	29 watts Fr. Lang, Inuktitut Languages

NEW BRUNSWICK

Cambellton LHCR-tv was: 15,400 wts vid. now: 13,830 watts video
 Cambellton CKCD)
 Upsalquich CKAM) To disaffiliate from CBC and rebroadcast CKCW Moncton, CTV.
 Newcastle CKAM-1)

Quebec Jonquiere CKRS-tv was 20kw now 208 kw, therefore delete CKRS -1 -2 -3 on channels 9,2,4, respectively.

Chicoutimi CBJET-tv ch.58 10kw vis. (may id as Saguenay, relay of CFMT Montreal)

ONTARIO: CROV ch.5 Pembroke...currently relays CBOT-tv ch.4 Ottawa, but has been sold to *Cambrian Bcing.,--ow ners of CKSO Sudbury. Feed may change in the future

North Bay CKNY-TV now owned by Cambrian (CKSO Sudbury) pgm feed may change.

Barrie CBLFT-7 ch.55 7,000 watts vis. relay of CBLFT-ch.25 Toronto

Penetanguishene CBLFT-TV-8 ch.34 11,300 watts vis. relay of CBLFT-7 above

Sarnia CBLFT-TV-7 ch.68 39,700 watts vis.

Driftwood CBOT-3 was:10 watts now: 1.22kw vis.

Kenora CBWT was 9.3kw now 8kw vis, but much higher antenna. (ehsat unknown)

Sioux Lookout CBWDT-1 was 5 watts now 30kw!

MANITOBA

Fairford ch.7 2,000 watts vis. relay of CBWT Eng-CBC

Jackhead ch.5 3,400 watts vis. "

Saskatchewan

Stanley Mission Ch.8 333 watts sat. of CKKST Saskatoon

Uranium City CKKAT 370 watts

Black Lake ch.7 320 watts ex. CKKAT

Argour CKYA-tv ch.8 was 1,940wts.vis. to: 31,000watts vis, and moves TX to

Swift Current ch.12 13,000 wts.vis. (ex.ckck-tv) Fisher Branch

ALBERTA

Burnia ch.47 588 watts vis. (ex. CBC-TV eng. Lethbridge)

Lethbridge CJOC-TV affiliation change to CTV network 1/9/1976.

Calgary ch.16 2,590 watts ex. CBKFT EDMONTON

Lethbridge ch.23 620 watts "

Rosemary CBRT-5 was: 25,300 watts vis nl now: 125,450 watts vis.

Lethbridge ch.10 123,000 watts vis. directional ex. CBRT

Chateh ch.5 151 watts vis. ex.CBRT Edmonton.

BRITISH COLUMBIA

Vancouver CBUFT ch.26 105,500 watts vis. On air. CBC Fr.

Vancouver CKVU ch.21 880,000 watts vis On air. Indep.

Port St. John CFPV-1 to: 146 watts vis.

Trail ch.8 4,400 watts vis (CRAN repeater via CKFL Santa Rosa)

Oliver Osooyos ch.3 930 watts vis. Chan repeater

Nelson ch.3 130 " " " "

Victoria ch.10 160,000 watts vis. CBC ENGLISH, local studios.

Some other interesting notes: Over the air, scrambled Pay-TV to begin by April via KMSC TV Ch.52 Los Angeles --National Subscription Television (50% owned by Oak Industries, of Ill.) owns KBSC and seeks licenses or authority to lease many other T's including VIXON-20 Detroit. WTCC-17 Atlanta began relaying its signal via RCA Satcom Dec.17/76. It is now receivable, via satellite, anywhere south of Prudhoe Bay Ak, and James Bay Canada.expect CRTC hearings soon on SCMD (SCA). It will be used as an additional radio spectrum, just like am and fm...rather than private "muzak" in the U.S...with receivers available to the general public.....also expect the silly Buffalo WY. "Roridder War" to dissipate, following a Canadian Cabinet decision to back-down on cable-tv commercial deletion from Buffalo signals....the CRTC is faced with mounting pressure to allow Pay-TV on cable and over the air. Spring hearings are expected, with some new hardware for coding signals.

73's for now, MLL and JJR

CCI (continued from page 14)

FEBRUARY 1977

WUAB-43 Cleveland is now listed in the Pittsburgh Metro edition of TV GUIDE.

Last November some Bend mail was stolen and none of it has been returned. If anyone sent in a report but has not seen it in the last few columns, I suggest you send it in again, as it may be part of the missing mail. Thanks to Clarke Ingram for this month's information on KET.

73's until next month,

Frank

EASTERN TV-DX

Bill Thompson
1907 Seneca Street
Buffalo, NY 14210

February 1977

TV-DX from the Northeastern U.S. and Eastern Canada

Both the Northeastern U.S. and Eastern Canada have been experiencing what is now being regarded as the worst winter of the century so far. The situation we described last month has generally gone from bad to worse, so apart from the occasional scattered regional opening, tropo has been insignificant. The annual (more or less) midwinter ducting over long-haul paths in the Northeast and Midwest may not occur this year, and the reason why is very obvious. As the extremely cold and unusually constant southerly arctic flow continues, the west-to-east storm track across the continent continues to move through the extreme southern part of the U.S., hundreds of miles further south than usual. This may well be part of the reason that the expected midwinter Rx openings never really showed up at the traditional peak period. Those Rxers who are interested in the relationship between heavy thunderstorm activity and E-skip cloud formation should note that areas where such violent weather is apt to occur during the midwinter peak had record cold weather—and even snow—instead. Will things get any better? They can't get any worse!!!

Ray Barstow 70 Heritage Circle Teaticket, Massachusetts 02536 (617)548-2329

October (RDT)	4 Tr 2330 WBDY-65 CT	27 Hs 1430 KULQ-3 IA
4 Tr 2155 WVTA-41 VT	5 0015 WBBE-28 PA	1500 WBT-2 IA
2200 WETK-33 VT	0200 WCHB-10 ME	"more off-season Rx channels 2, 3, 4 at times"
WEEK-52 ME	26 Hs 2330 WEDU-3 FL	
2300 W61AC-61 CT	27 0030 KTEW-2 OK	
Waterbury (WEDW)	1330 WISC-3 WI	

Veries back from WKPT-19 TN & CKCO-3-42 ON. "Not much this reporting period. I am having tower problems, etc. Almost lost the TRI HI tower twice. First time, base cracked on one side, with 7' ~~line~~ in ~~some~~ trees holding up tower at 45° angle. Found out the hard way not to lower tower in the wind. With tower all the way up, reception was very bad. I must have a bad connection or maybe the 7' dish & VHF antenna are too close and degrading performance. Hope to clear up the problem before it gets too cold outside."

Paul D. Traska 64 Weaver Avenue Buffalo, New York 14206 (RDT/EST)

September	28 MS 0550 WJXI-4 FL	2 Tr 2040 WKBS-48 PA
30 Tr 1200 WUOC-44 OH	30 Tr 0540 WHIO-7 OH	"snow free most times"
1215 WOPC-38 PA	Dayton	
1930 WTPA-27 PA	MS 0630 WDRB-4 OH	2041 WLVT-39 PA
WHP-21 PA		"snow free"

October	4 Tr 1945 WKAR-23 MI	2041 WHJT-52 NJ
1 Tr 1230 W63AB-63 PA	WUHQ-41 MI	"good signal"
3 2330 WABO-49 OH	"CCI on 19"	2041 unID-66 "xltr"
2332 W39AA-39 IN		2043 WTPA-27 PA

4 0005 WOSU-34 OH	January 1977	
7 1300 WUOC-44 OH	2 Tr 1930 "Very good signals from:"	
1700 WDCA-20 DC	Youngstown U's	
WHP-21 PA	Binghamton U's	
WKBS-48 PA	Elmira, Akron,	
WNJT-52 NJ	Detroit, Cleveland U's, plus	
8 1230 WLVT-39 PA	Syracuse,	
14 1700 WKBS-48 PA	Utica,	
1702 WHJT-52 NJ	WAKR-23 MI	3 0000 W64AB-64 PA
WDCA-20 DC	WUOC-44 OH	0007 CICO-24 OH
20 1650 WDCA-20 DC	WYTI-25 MI	0030 W68AD-68 NY
23 2245 W63AB-63 PA		Corning (WKBS)

"A long wait for those WKBS xltrs...what are they, half-watts??? Log at 431."

HAVE YOU NOTICED ?

Prices of WFTDA supplies and DX literature are now lower than ever before! Here's your chance to stock up on such items as club stationery, QSL report forms, and VUD boxers—all at prices equal to or less than what they were several years ago! And if you're a new member, you can purchase such items as BEYOND SHORTWAVE, the WFTDA TV STATION GUIDE, and back issues of the VUD at incredibly low prices! We can't guarantee how long these super-reduced prices will be in effect, so we suggest that you order immediately. For full details, see our back cover!

CENTRAL TV-DX

William J. Draeb
Ellis St. R.R.#2
Keweenaw, WI.
54216

February 1977

Deadline: 10th

For TV-DXers in the states of IL, IN, IA, MI, MN, OH and WI.---Report Today!!!!

Another lousy month for dx. Cold temperatures being the main deterrent. I was listening to the weather report the other day and the wx man said December (1976) was the coldest on record (records go back around a hundred years). The temperature averaged 15 degrees below normal for the month. It looks like January is going to be the same. This morning the temperature was -25 deg.

Jim Gould: R.R.#1, Kokomo, In. 46901 EST (317)-452-9585
11-8 Tr 1759 KRC-10 Mn 2412 (396)

*With no dx in last 2 months to report I would like to use the space to request from fellow members to please include tropo distances in their reports. This is especially true when loggings are listed by call and state. I usually go over all reports in the VUD and in many cases I miss some good distances in other reports because I'm not familiar with the stations or DXers' location.

I would also like to ask if any club member has access to 200' of .75 cable with RG-59 adapter ends that they would be willing to sell and send to me. If so, please drop me a line."

Paul Gaines: 15920 Puritan St., Detroit, MI, EST
WCBS-2 Ny (490) seen almost every day from 11-10 to 12-8.
11-17 Ms 0353 WWL-4 La 1012(940) 11-27 Tr 0517 WBAZ-3 Wv 1022(280)
12-1 Tr 0112 WQW-13 Wv 1022(280)

John D. Hathaway: 2109 Tamarack Court, Champaign, IL, 61820 CST
11-2 Tr 2226 WLL-38 In., Terre Haute 11-3 Tr 2355 KRM-30 Mo., St. Louis.

Equipment used: Zenith TV and indoor antenna. Present log totals: 44 stations.

Buck Battin: 4305 Pitt, Duluth, Mn 55804 CST Report periods: 12-4 to 12-31.
4 Tr 0245 WBAZ-2 WI(255) 18 Tr KRC-10 Mn(195) 26 Tr 1100 WBBF-8 WI(210)
5 Tr 0045 KTC-2 Mn(140) 0140 WJMN-3 MI(250) 28 As 2018 chs.2-5; North.
1030 WBBF-38 WI(255) 0141 WFRV-5 WI(255) 29 Es 2232 at 35Mhz.
11 Tr 0100 WBAZ-2 WI(*) 23 Tr 0630 KGLO-3 Ia(260) 31 Es 2140 "

Equipment: Jerrold antennas; UHF Para-cyl; Lo VHF--two 10 element yagi, one vert. polarized, the other horiz. polarized. Hi VHF--one ten element yagi. Antennas range in height from 20 to 35 ft. Also, a 30-50Mhz receiver with ground plane antenna.

"My antenna system is now completely installed including a ground plane for detecting Es building up at 35Mhz and a vertically mounted low band yagi. So far the best I've been able to do with five antennas, two rotors, two TV sets and a radio is a very weak signal on some Green Bay stations at 255 miles and one Iowa station at 260. Or, to put it another way, DX has been lousy.

On the subject of TV sets, the Admiral 16" color set I'd been using for DX died so I replaced it with two black and white sets. Not knowing any way to test a set for DX in a showroom, I sort of twisted some knobs, made my best guess and shelled out. I came up with a K-Mart 9" solid state model and a Sylvania 12" tube type. Both sold for under \$90. The K-Mart seems surprisingly well made. It has the same weak-signal pulling power on VHF and UHF my Admiral did. The dials are easy to read and the UHF detent tuner always reads right on the channel. The picture is stable, right down to fade out. My only complaint is that the audio lags behind the picture. A signal strong enough to bring in a stable snowy picture may be very weak on audio.

The Sylvania has less pulling power than the K-Mart. It's just the opposite of the K-Mart though; in that it provides good audio even after the picture fades out. The dials are hard to read and it has an annoying hum. However, it has one real advantage--the adjacent channel rejection is fairly good for a small set--on the K-Mart it's typically poor. Anyway, for what it's worth, those are my observations on the two models."

Don Buland: 4448 68th Place, Kenosha, WI. 53140 CST Report periods: 11-17--12-19
17 Es 1900 KTBS-3 La(780) 11 Tr 0658 WEHT-25 In(320) 19 Tr 0200 WLKX-18 Ky(330)
24 Es 1730 Unided-2; S. 14 Tr 0555 WLKY-32 Ky(330) 0900 WUAB-43 Oh(310)
25 Tr 0855 KBWA-41 Mo(430) WUAB-43 Oh(310) WUIZ-25 Oh(330)
11 Tr 0645 WLKY-32 Ky(330) 19 Tr 0200 WDRB-41 Ky(330) Log total: 438

William J. Draeb; Ellis St. R.R.#2, Kewaunee, WI. 54216 CST 12-13 to 1-5

13 Tr 2038 KTSB-27 KS(560)	15 Tr 1958 KOTC-27 MO(588)	2 Tr 0915 WTVV-33 OH(420)
2052 KCBJ-17 MO(450)	KDZK-21 "	WJET-24 PA(405)
KINL-30 MO(432)	2020 KTVJ-16 " (630)	WSEB-35 "
WICS-20 WI(325)	16 Tr 2111 WVIZ-25 OH(355)	0930 WUAB-43 OH(340)
2:03 WKYT-27 KY(473)	WUAB-43 " (340)	0942 WPGH-53 PA(480)
2104 WKSO-29 " (538)	2125 WDSU-34 " (395)	0944 WQLN-54 " (405)
2114 KDZK-21 MO(588)	12 Tr 1940 KINL-30 MO(432)	WOTV-29 NY(445)
KMTC-27 " "	1943 KDZK-21 " (588)	1355 CICA-19 OH(410)
2118 KHIN-36 IA(457)	KMTC-27 " "	1401 CHLT-25 " "
2138 WUSI-16 IL(402)	18 Tr 1655 KINL-30 " (432)	1407 CICO-28 " (345)
2153 WKMA-35 KY(499)	19 Tr 0823 WEHT-25 IN(420)	1515 CHLT-76 " "
14 Tr 1227 KINL-30 MO(432)	WLKY-32 KY(437)	Es 1900 KMID-2 or KRW-2
15 Tr 1820 " " "	1 Tr 1833 KGLO-3 IA(300)	1 Tr 1900 WKHN-27 OH(420)
1850 KHIN-36 IA(457)	Es KTVX-47 UT(1264)	WTVV-29 NY(445)
1853 KHIN-32 IA(476)	2 Tr 0915 WFMJ-21 OH(420)	1920 CHLT-25 OH(410)
1910 KQBE-26 NE(481)	WKHN-27 " "	CICA-19? " "

My sincere apologies to Michael Hogan whose report I seem to have misplaced. I was about to type it up but when I looked in the envelope in which it came, nothing was in there. I remember receiving the xmas card which I have put thought there was a DX report with it; maybe not, I guess my mind is failing me. (Thanks for the card Mike and to the other DXers who sent me cards).

I just received a last minute post card from Michael Hogan which reads: "There is no TV-DX to report from this location due to the re-evaluation of my DX set up. A new receiver (TV) is in the offing, and finally, the addition of a long awaited rotor. 73's"

CONVENTION BIDS '77

In accordance with our notice last month that convention bidding would close on January 20, the two offers below are the only ones which can be considered for the 1977 WFFDA convention site. Please examine both possibilities, and then make your preference known to your editor.

PORTLAND, OREGON

Hosted by Bill Block, Pat Martin, and Frank Aden
Portland would provide the first WFFDA Convention on the west coast and would allow many western members to attend. Possible activities would be tours of local TV and FM stations, and a DXpedition to one of the nearby hills. The Holiday Inn near the famous Lloyd Center (one of the largest shopping malls in the US) has indicated that if 25 or more members were to attend, a free meeting room would be provided. Probable dates would be the first weekend in August.

Portland is a very beautiful city in itself with a population of over 500 thousand and about a million in the metro area. The area has many tourist attractions with the Cascade Mountains to the east and the Pacific Ocean less than 100 miles to the west. Portland is served by many airlines, as well as Amtrak and Greyhound, among others. A local tour agency has indicated that special air fares would be available to anyone wishing to attend a Portland WFFDA Convention.

DUNKIRK, NEW YORK

Hosted by Bob Seybold, also '70 and '73 WFFDA host
The third Dunkirk WFFDA Convention would probably be on the first weekend in August, and would be either at Bob's hilltop DX location or at his traditional repair shop. A large equipment display is planned, including TV/FM receivers and antennas with rotors, a 7-foot UHF parabolic dish, and all types of UHF amplifiers including B-T, Winegard, etc. Expeditions to Bob's hilltop location will be made if the convention is not held there. There will be at least one cookout, as well as snacks and refreshments throughout the convention.

On Saturday evening, a banquet will be held at the Vineyard Motel, at which many attendees stayed during the '73 convention. The motel features a swimming pool and playground, as well as 39 air-conditioned rooms with (of course!) TV. Of historical interest is nearby Fredonia, NY, while the area provides many tourist attractions such as golf, boating on Lake Erie, tennis courts, etc.

If there is the slightest possibility that you might be able to attend a convention at either location, please drop a note to your editor (Clarke Ingram, 5201 Colewood Drive, Pittsburgh 15236) indicating your choice for the '77 convention site. Votes must be received by February 20, 1977. We expect to have a confirmed site and dates for an announcement in the March VUD. We also expect considerably more votes than the 13 we received for the 1976 site! Cast your vote today!

SOUTHERN TV DX

John P. Combs
816 W. Harvard
Orlando FL 32804
Deadline: 10th!

After complaining about the lack of good tropo openings in last month's column, the past month's activity seems to have made up for it. Several good openings have occurred, with UHF loggings in the neighborhood of 500-700+ miles. Ken Simon reports several instances of 400-500 mile UHF's coming in at VAFI 5555!! As for myself, my work schedule has caused me to miss three of these nice sessions! (Aaarrghh!!!) The winter E-Skip season has been going quite well. (See E-Skip chart below). Most of the skip here in the Southeast seems to have come from the west, including one really bang-up Mexican opening in which all channels 2-6 were 2-3 stations deep!!

E-Skip Chart: Date: Dec. 18 20 21 22 24 28 Jan. 1 2
of reporters: 3 2 1 1 1 3 3 1
MUF at least: 6 5 2 4 3 6 5 3

Randall B. Clark, RT5 Dutch Ridge, Parkersburg WV 26101 (EST)

December	January
7 T 0200 WICD-15 IL T 18 E 1417 Cuba-2 (which one??-jfc)	1 E 1815 unIDs-2,3
10 T 0210 WQED-13 PA T	2220 KMID-2
11 T 1200 WVIZ-25 OH 28 E 1700 WPBT-2 FL	2 E 1800 KENW-3 NM T
1415 WUAB-43 OH 1714 XPRC-2 TX T	1900 KNID-2 TX T

"I will be going to another QTH/college later, about February the first...hopefully! I will possibly be going to WV Tech to get my B.S.E.E. degree. Of course they have their own college radio station--WMON-1340, 1 kw, which is, unfortunately, AM. But anyway, I'll probably find out that there's an FM station as well! Maybe!" (Randy reports that his log totals are now "over 180"--jfc)

Kenneth R. Simon, 528 Pilgrim Rd., West Palm Beach FL 33405 (EST)

December	January
4 T 2220 WEGA-27 FL 360 4 T 0900 WYEA-38 GA 480	1 T 0610 WJXT-4 FL 285
2220 WGIQ-43 AL T to 0930 WGIQ-43 AL 475	0610 WJCL-22 GA 390
5 T 0730 WEGA-27 FL T	0620 WYEA-38 GA 480
6 T 0753 W69AA FL 40 1000 WABW-14 AL 415	0625 WRBT-33 LA 720
9 T 1330 WJCL-22 GA 390	Baton Rouge
1330 WQJB-20 FL 260 B 1315 XPRC-2 TX 940	0635 WJCT-7 FL 285
2105 WJSP-28 GA T 1315 KIII-3 TX T	0650 WEGA-27 FL 360
2105 WETV-30 GA T T 1645 WJWJ-16 SC 410	0720 WHAE-46 GA 560
16 T 2100 WQJB-20 FL 260 1645 WJCL-22 GA 390	Atlanta
2100 WEGA-27 FL T B 1730 XBZ-3 QRO 1000	0729 WCVB-41 GA 465
18 T 0700 WJCL-22 GA 390 19 T 1445 WJCL-22 GA 390	0729 WRBL-3 GA 480
0700 WRBT-33 LA T 1530 WQJB-20 FL 260	0729 WRAL-32 AL 535
(Most likely, Ken, as I had them at my QTH at this time--jfc) 1627 WJWJ-16 SC 410	Montgomery
0725 "All WCIX xltres VAFI 4555!!" 20 E 1653 KG3T-4 TX 1080	0729 WETV-30 GA 560
0900 21 E? 1947 "Weak & offset over WPBT"	0729 WQJB-20 FL 260
to 0930 WERA-14 SC T 24 T 2119 WQJB-20 FL 500	0745 WTCG-17 GA 560
WQJB-20 FL 260 2123 WQJB-20 FL 260	0745 WDTB-13 FL T
WACS-25 GA 430 25 T 0930 WYEA-38 GA 480	0905 WGIQ-43 AL 475
WJSP-28 GA 495 1000 WNTV-29 SC 580	0905 WJSP-28 GA 495
WEGA-27 FL 360 27 T 1930 W69AA FL 40	0922 WDHN-18 AL 440
	1000 WLPB-27 LA 720
	Baton Rouge
	"VAFI 5555!"

(I have taken the liberty of approximating some of Ken's distances which he left out of his report. A phone call from Ken tells of more good DX, including yet another good spell of tropo with such goodies as WMAA-29 logged. That's over 700 miles. Unfortunately, I am pressed for time as I type this, so these loggings will have to wait. Ken promised to send a quick updater, but I just don't have time to wait for it. Sorry, Ken!—jfc) (Ken's log now at 225—jfc)

John P. Combs, 816 W. Harvard, Orlando FL 32804 (305) 843-4829 (EST)

It's been a bit of a frustrating month for me, missing some nice tropo. But I have added a few new ones, bringing my log up to 251. Most of my tropo loggings have been quite weak. My antennas just aren't high enough!! Got a nice camera for Christmas, a Fujica ST605. I plan to photograph my DX and be able to contribute to Jim Alexander's column. (My report on next page...)

December

9	M	0749	KATC-3	LA	T	18 E	1607	XHIT-4	CHIH	1525	1 E	1736	KMID-2	TX	T
	T	0812	WSAV-3	GA	242			(Estado #5; promo				1738	KENS-5	TX	T
10	T	0108	WCIX-6	FL	226			w/Canal 13 ID)				1740	KACS-3	TX	T
		0113	WVRG-5	AL	417		1615	XHCN-2	CHIH	T		1745	Had to leave		
M	0115	KALB-5	LA	689			1651	XELN-4	COAH	T			for work--		
		(prev. by Tr)					1657	XEBZ-3	QRO	1315			RATS!		
T	0121	WJTV-12	LS	T			1659	XHD-4	TAMS	1135	2 T	0244	WAGA-5	GA	T
	1954	WJWJ-16	SC	290			1720	XHZ-5	QRO	1315	4 T	2056	WMAZ-13	GA	T
12	T	1044	WRBL-3	GA	T			Cerro El Zamora-				2102	WATL-36	GA	403
	1830	WFSU-11	FL	230				ano					Atlanta		
	1830	WECA-27	FL	221		1745		Es in through 6,					(Station #250)		
	1830	WBWW-14	GA	244				had to go to			2157	WHNT-19	AL	T	
	1845	WDHN-18	AL	301				work...many othe-			2205	WSFA-12	AL	380	
	2243	WDCC-15	GA	T				er unids not not-			2208	WTYY-4	FL	T	
	2243	WJWJ-16	SC	290				ed!			2246	WMAH-19	MS	479	
M	2301	unID-7				20 T	1239	WECA-27	FL	221		2248	WDHN-18	AL	301
T	2332	WSAV-3	GA	T		E	1902	KGBT-4	TX	1023		2252	WYBA-38	GA	341
16	T	1535	WFSU-11	FL	230		1902	KRGV-5	TX	T		2252	WJSP-28	GA	357
	1535	WECA-27	FL	221			1904	XEPB-3	NL	T		2254	WECA-27	FL	221
	1705	WBWW-14	GA	244		22 E	1630	XEW-2	DF	T		2314	WLOX-13	MS	T
17	T	0020	W33AA(1)	FL	191		1630	XHTV-4	DP	T		2322	WETV-30	GA	403
	0857	WEBA-14	SC	320			1635	XEZ-3	QRO	T		2330	WAGA-5	GA	403
	0900	WJWJ-16	SC	290			1707	KGFT-4	TX	T		2331	WKAB-32	AL	394
	0910	WSAV-3	GA	242			1710	XEPB-3	NL	T		2351	WHAB-46	GA	403
	0911	WRJA-27	SC	373			1728	KIII-3	TX	T	5 T	0013	WTGG-17	GA	398
	0914	WVAN-9	GA	T	24 E	1730	KPDK-3	TX	T				(All URFs extre-		
	0923	WBTV-13	SC	T	27 T	2136	WJSP-28	GA	357		9 T	0220	WTVH-9	GA	329
	0925	WJBK-6	SO	T		2136	WYBA-38	GA	341			0222	WSFA-12	AL	380
	0939	WEHY-30	GA	403		2136	WECA-27	FL	221			0222	WYBA-38	GA	341
	0943	WHAB-46	GA	403		2150	WDCC-15	GA	294			0225	WCIX-6	FL	226
	0955	WEAR-3	AL	T	28 E	1703	WCIA-3	IL	951				(Many stations		
18	T	0215	t/in after work			1712	WOC-6	IA	T				on late w/East		
	0215	WRBT-33	LA	603		1714	KMOX-4	MO	T				West FB game)		
		(Local quality--				1732	KQTV-2	MO	1089			0743	WCWB-41	GA	318
		all-nite movies)				1732	WDAP-4	MO	1048			1301	WRBL-3	GA	329
	0215	WYEA-38	GA	341		1749	KTVO-3	MO	T			1303	WDHN-18	AL	301
	0702	WRBT-33	LA	603		1806	KYTV-3	MO							

*** * ***

Since I have some space to fill up, allow me to mention a couple of things. First of all—in perusing the old AIPA bulletins (see Memorabilia column), I find that DX tests were often run during MS showers in those days. I started wondering—why doesn't the WTFDA arrange such tests? It would be ideal for educational stations and others that may be off during peak MS hours. I'd like some comments on this, please. (Mostly, it's a lack of volunteers and cooperation —CWI)

Secondly, I am a bit frustrated concerning the lack of reports. According to my membership list (accurate to 2/3/76), there are 41 members in the Southern TV-DX reporting area. This means less than 10% of these members have responded to this column. If you have a copy of last month's VUD, please re-read my comments concerning this.

Finally, I think it would be a good idea if members sent in a short biography of themselves with one of their reports. This would be a good idea for all DX columns and would include age, family, occupation, other hobbies, etc. To start it off, here are my "statistics": I'm 19 years old and a student at Florida Technological University. I plan to go to a Bible college after graduation and work in some sort of Christian ministry. My girlfriend's name is Karen, also an FTU student. I play trumpet, am very interested in music, most especially Baroque (Bach, Handel, etc.) and have two dogs and a cat. I've been interested in TV-DX since 1970 and have DXed actively since 1972.

That's it for this month. Peace be to you, and God bless.....73. John

WESTERN TV-DX

Doug Everitt
1710 W Maine
Enid OK 73701
Deadline: 10th

For TV DXers in the states of AK AZ CA CO HI ID KS MT ND NE NM NV OK OR SD TX WA WY & the provinces of AT BC MB SK YK.....where's YOUR report?

This addendum to my notes concerning UNIDs last time: please do send information concerning Es dates and MUFs for non-productive openings, as this allows a more accurate Es chart to be prepared. Specific info regarding UNIDs should be directed to Frank Aden's CCI Column, and QSL info should go to Tom Yingling's QSL Corner.

First off, we have a delayed report of November DX from Pat Dyer. The holiday mail rush strikes again!

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228 (CST) (November)

Equipment: 1976 model b&w Penncrest; Archer V-100 and 8-bay bowtie UHF array at 20'.
07 tr 0000 KPLC 7 LA 325 23 Es 2058 KCPX? 4 UT 1080 25 Es 1545 WDTN? 2 OH 1075
 0000 WAFB? 9 LA 450 2228 KNOP 2 NE 815 1545 WKYC? 3 OH 1250
 0154 KFDL 6 IX 275 24 Es 0759 KTWO 2 WY 1015 1700 WJBK 2 MI 1225
08 Es 1308 KTWO 2 WY 1015 0802 KOA? 4 CO 810 1700 WTVJ 2 IN 935
14 Es 0925 KDKA? 2 PA 1280 0805 KWNJ 2 CO 810 1702 CKGN? 6 ON
 1020 WPMY 2 NC 1175 0859 WCBD 2 SC 1120 1712 WWJ? 4 MI 1225
 1055 WOCO? 4 MN 1110 *O930 ch.2&3 on tuner de- 1802 WCIA 3 IL 935
 1059 KTCB 2 MN 1110 veloped a wierd loss of 1807 KTVI 2 MO 790
 1128 WAVE 3 KY 945 gain... 26 Es 1600 TGV? 3 Gua 1120
 1159 WDTN 2 OH 1075 Es 1250 WTHS 2 FL 1150 1930 YSR 2 ELS 1200
 1210 WTVJ? 4 IN 950 1310 WTVJ? 4 FL 1150 27 Es 1540 WESH? 2 FL 1055
 15 MS 0552:30 WKRG 5 AL 1715 WJBK 2 MI 1225 1540 WTVJ? 4 FL 1150
17 Es 1830 WJBK 2 MI 1225 1729 WMT 2 IA 945 1545 WEDU 3 FL 985
 1835 WWJ? 4 MI 1225 1759 WDTN 2 OH 1075 1555 Cuba 2
 19 MS 0128-30 long burst 1740 WWJ? 4 MI 1225 1628 WPBT? 2 FL 1150
21 Es 1550 YSR? 2 ELS 1200 1812 WBBW 2 IL 1045 30 Es 1750 YSR? 2 ELS 1200
23 Es 2010 KID? 3 ID 1215 1955 KNBC? 4 CA 1190 1755 YSU? 4 ELS 1200
 2028 KUTV 2 UT 1080 1955 KNKT 2 CA 1190 1805 TGV? 3 Gua 1120

Bob Cooper, Jr., Rt.5 Box 782, Guthrie OK 73044 (CST)

UHF MS!!

Results here suggest Oklahoma has fared no better than other portions of the country in recent months. A heavy travel schedule has also taken its toll: one three week period saw me in SF on one trip, DC, back to LA, and then back to DC. fortunately, I apparently picked a good time to be gone!

December 1976 12 tr 0935-1005 WILL 38 IN 18 tr 0805 KYNE 26 NE,
09 MS 2105 on ch.16 1000 WFIE 14 IN, KHNE 29 NE,
 In years of looking have never WEHT 25 IN KCBJ 17 MO
 seen for positive-sure meteor 1030 WXIX 19 OH 19 Es 1425 XEW 2 DF
 burst at UHF. This was it, at 15 tr 0735 WAPT 16 MS 1605 XEZ 3 QRO
 2105, a full two second CCI 17 tr 0725 KIDZ 24 TX, January 1977
 burst against KTVJ-16; 10kHz offset, making it either + KDOG 26 TX 01 Es 1830 WEDU 3 FL
 or minus... 18 tr 0805 KNEB 14 LA, 1832 TV Cubana 3
12 tr 0935-1005 KDNL 30 MO KIBAA KS, 02 Es 2000 KORK 3 NV
 KXNE 19 NE 2130 KTVQ 2 MT

Robert J. Williams, 251 6th Avenue East, Twin Falls ID 83301

Equipment: Curtis-Mathes 21" color TV (in radio-TV-phonograph combination); Magnavox b&w portable TV. Antennas: 17-el. outdoor antenna on rotor; two-bay stacked 5-el. ch.4 homebrew yagis on rotor; two dipoles in 90° phased array; vertical dipole with Winegard booster. (If anyone feels like it, add Bob's Es dates to past charts--de)

December 1975 17 Es 1230 WBAY 2 WI 09 Es 1700 KDLO 3 SD
22 Es or MS 2134 KLNB 3 NE 1244 KTCB 2 MN 1703 WMT 2 IA
23 Es 1100 KIVO 3 IA 1918 KNOP 2 NE 1713 KMTV 3 NE
 1119 KXJB 4 ND 1920 KDUH? 4 NE 1725 KXJB 4 ND
 1125 KDLO 3 SD 19 Es 1958 KMID 2 TX 1742 CHFD? 4 ON
 1159 CKPR 2 ON 1958 KENW 3 NM 1800 CBWF? 3 ME
 1205 CBWF? 3 ME 27 Es 1229 KNKT 2 CA 2028 CKCK 2 SK
January 1976 1301 KNBC 4 CA 2342 CFAC 2 AT
03 Es 2100 KFDX 3 TX 1331 KEYT 3 CA 2348 CFRN 3 AT
 2122 KTBG 3 IA 28 Es 1914 KTIV 4 IA 11 Es 0859 KENW 3 NM
04 Es 1024 KMOL 4 TX June 1976 12 Es 1324 KQTV 2 MO
07 Es 2141 KMID 2 TX 01 Es 2251 KIVO 3 IA 13 Es 1110 CFRN? 3 AT
09 Es 1051 KMID 2 TX 2310 KQTV 2 MO 1409 KTEW 2 OK
May 1976 06 Es 1030 KTEW 2 OK 1459 KGFE 2 ND
17 2E 1213 WCBS 2 NY 08 Es 0759 KENW 3 NM 1513 CBWT 6 ME
 (about 2100mi--de) 0833 KACB 3 TX 1518 CBWF? 3 ME
 Es 1214 WJBK? 2 MI 09 Es 1359 KMID 2 TX 1658 KIVY 4 OK

Robert J Williams continued...

13 Es 1930 KAMR 4 TX	16 Es 2100 KFDX 3 TX	26 Es 2124 KTBS 3 LA
2059 KMID 2 TX	21 Es 1530 KBTX 3 TX	2127 KFDX 3 TX
2108 KACB 3 TX	1800 KTBS 3 LA	2144 KAMR 4 TX
14 Es 1728 KDBC 4 TX	2309 KQTV 2 MO	27 Es 1059 KBTX 3 TX
1830 KENW 3 NM	25 Es 1028 KARD 3 KS	1131 KDFW 4 TX
1900 KMDL 4 TX	26 Es 1000 KFDX 3 TX	1215 KTBS 3 LA
16 Es 2359 KMID 2 TX	1429 KTVI 2 MO	1227 KTVY 4 OK
2000 KYTV 3 MO	1459 KMTV 3 NE	1258 KTIV 4 IA
2058 KDFW 4 TX	1519 KTIV 4 IA	1336 KDLO 3 SD

John Anderson, Box 186, Lowe Farm MS ROG LED (December)

07 tr 2030 KWCM 10 MN 290	12 MS 0614 KYTV 3 MO 858	17 tr 0215 WTCN 11 MN 360
11 early AM: KTCA 2 MN via tropo, aurora, and MS 360	0630 KTWI 3 in centre of REIMA?	0230 KDLO 3 SD 305
MS 2350 KCKT 2 KS 758	0730 KWGN 2 CO 765	18 tr 0040 WDIO 10 MN 300
12 MS 0545 WTVW 2 IN 830	0800 KCKT 2 KS 857	1315 WTCN 11 MN 360
I was cleaning up the "shack" recently and came across my long-lost page of loggings. Here's the contents: (again, if you feel like it, add on to past charts--de)		
June 1976	27 Es 1450 WCBI 4 MS 1181	July 1976
21 Es 1200 KMID 2 TX 1233	1700 KTVY 4 OK 950	02 tr 0905 WIRT 13 MN 242
1200 WBRZ 2 LA 1337	28 Es 2100 KETS 2 AR 1045	0905 WDIO 10 MN 300
1840 WVAR 2 MD 1228	29 Es 0000 KCKT 2 KS 758	both snowfree!
1900 WCBS 2 NY 1279	1305 CKSA 2 AT 474	Es 2300 KMID 2 TX 1233
1900 WNBC 4 NY 1279	1315 CFAC 2 AT 757	04 tr 2100 KUMV 8 ND 298
22 Es 0000 KOAI 2 AZ 1215	1330 xltr-2 of KSTW 11 WA	73, John
(John also noted several MS unIDs on 12 December, including a couple on chs.10&13.--de)		

Doug Everitt, 1710 W Main, Enid OK 73701 (CST)

Equipment: Sony KV1203, KV5100 (AC/DC color); Motorola BS711CS, Quasar XE4242; Panasonic 19" VTR monitor/receiver; NV3020 b&w VTR. Antennas: Winegard K-10-26 lo-band yagi at 30 feet; Winegard K-10-713 hi-band yagi at 40 feet; Finco P-7 UHF dish at 35 feet; all antennas preamped and use RG-59/u foam coax. CDE AR-33, AR-40 rotators.

December 1976

02 tr 1344 KHIN 36 IA 340	21 MS 2230 KORK 3 NV 960	02 Es 2010 KVVU 5 NV 960
07 tr 1239 WRBT 33 LA 570	2237 KTVS? 3 CO 410	2011 KORK 3 NV 960
10 Es 1850 KEZ? 3 QRO 1200	23 Es 1510 KTVN 2 NV 1210	2029 KEYT 3 CA 1220
12 MS 0111 XHBC? 3 BCN 1020	1512 KCRL 4 NV 1210	2029 KNBC 4 CA 1150
13 tr 1905 KCPT 19 MO 260	1630 KNKT? 2 CA 1150	2030 KNKT 2 CA 1150
18 tr 0850 KCBJ 17 MO 350	1630 KNBC? 4 CA 1150	2100 KSBY 6 CA 1250
0850 KONE 19 NE 380	1630 KTLA? 5 CA 1150	2130 KTVQ 2 MT 850
0850 KYNE 26 NE 350	28 Es 1700 WPBT 2 FL 1290	2130 KTVN 6 MT 1000
0850 KHNE 29 NE 290	1700 WESH 2 FL 1100	2135 KOLF 4 MT 1000
0850 KMEG 14 IA 420	1702 WTVJ 4 FL 1290	2210 KIVI 6 ID 1100
0922 K18AA K34AA KS	1732 WEDU? 3 FL 1080	03 MS 1228 WCBT? 2 SC 1060
0935 K71BO KS 160	1738 WCDX 6 FL 1290	2E 1610 WKAQ 2 PR 2000+
0945 KVPD still 21	30 Es 1502 KTVN 2 NV 1210	Es 1800 XEW 2 DF 1200
0950 KDUB? 40 IA 560	January 1977	1800 XHTV 4 DF 1200
0955 K7BEN KS 190	01 Es 1723 WCDX 6 FL 1290	1800 XHGC 5 DF 1200
Es 1930 XEFB? 3 NL 740	1729 WEDU 3 FL 1080	04 Es 1335 KTVU 2 CA 1340
tr 2005 KGLD 11 s/free	1736 WPTV 5 FL 1240	1347 KRON 4 CA 1340
19 Es 1511 XEW 2 SF 1200	1800 WPBT 2 FL 1290	1350 KPIX 5 CA 1340
1515 XHTV 4 DF 1200	02 MS 1200 WESH 2 FL 1100	1354 KCRA 3 CA 1300
1649 XHGC 5 DF 1200	Es 1630 WSJK 2 TN 800	1416 KVIE 6 CA 1300
1845 XEHL? 6 JAL	1718 WCMH 4 OH 850	1435 KTVN 2 NV 1210
21 Es 1813 XHIA 2 COA	1720 KDKA? 2 PA 1020	1435 KCRL 4 NV 1210
1835 XEFB? 2 TAM 620	1743 WWAY 3 NC 1140	05 Es 1952 XHY 3 YUC
	1959 KOAI 2 AZ 770	10 tr 0019 KTXS 12 TX 310

I was very confused at 1813 on 21 Dec when I saw an ad card flashed for 15 sec. on ch.3 for XETB, until I thought to look up the call to see if it was a radio outlet. Sure enough, according to Vane Jones' Station Guide, it was in Torreon, thus leading me to ID the ch.3 as XHIA.

WKAQ on 03 Jan was my first double-hop Es. True, no positive ID was seen, but heavy circumstantial evidence, such as repetitive mention of Puerto Rico, make it pretty certain. Quality ranged from fair to very good, often in color.

The DX antennas will probably remain atop 1708 for a while, until tower plans have been fully formulated. The additional downline losses don't seem to be hurting me too much. DX seems a lot easier without so many distractions over here.

I plan to take my new 5" color AC/DC set on a trip to Chicago in February; I'm going by plane--it'd be interesting to DX at 30,000 feet..... We'll see what turns up. I can foresee many uses for the new set; it should make DXpeditions much easier.

So much for my stuff... I only hope the next few months aren't a letdown!

Steven C Wiseblood, 707 Loma Way, Santa Maria CA 93454 (PST) (19 Dec-05 Jan)

Receiver: 1959 Packard Bell 19" b&w Antenna: ACA-525 25-element VHF at 25'

19 Es 1753 MUF ch.4	22 Es 1731 XHCH? 2 CH	24 Es 1745 XHCH? 2 CH
1800 KMID 2 TX 1066	1731 XHI? 2 SON	25 Es 1636 MUF ch.5
2100 XHI? 2 SON	23 Es 1445 KCKT 2 KS 1205	1646 KMID 2 TX 1066
2107 XHBS 4 SON	1732 XHCH 2 CH	1641 KAMR? 4 TX
20 Es 1707 MUF ch.5	24 Es 1445 MUF ch.5	1649 KOCO? 5 OK
1730 XHCH 2 CH	1455 KMOL? 4 TX	26 Es 1654 KMID? 2 TX 1066
1737 XHIT 4 CH	1504 XHIT 4 CH	02 Es 1830 KMID 2 TX 1066
21 Es 1747 XHCH? 2 CH	1520 XHCH 2 CH	1932 KCKT 2 KS 1205
1920 XHI? 2 SON	1530 XEPM? 2 CH	

Not an awful lot of tropo (try none--de), but a heck of a lot of Es. In fact, Es was seen for eight days in a row, with the MUF peaking around 1730 local time each day! Not much noted in January, though. It is raining today (postmarked 07 Jan--de), snowing down to 2500'. I guess many xmters will be snowed in on Mt. Wilson, etc. 73s!

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228 (CST) (07 Dec-07 Jan)

08 Es 1159 WESH 2 FL 1055	18 Es 1557 Cuba 3	25 Es 1758 XHBC 3 BCN 1010
1215 WEAR? 3 FL 685	1625 XHTV? 4 DF 690	1759 KNKT 2 CA 1190
1225 WPBT? 2 FL 1150	1628 XHGC 5 DF 690	1759 KNBC? 4 CA 1190
1235 f/out	1650 MUF 106.5 MHz	1759 KVOA? 4 AZ 750
1336 YSR 2 EIS 1200	1945 f/outs	1809 XETV? 6 BCN 1100
1355 TGV? 3 Gua 1120	19 Es 1425 YSU? 4 EIS 1200	1833 MUF 107.9 MHz
1420 f/out	1445 YSR 2 EIS 1200	26 Es 1545 YSR? 2 EIS 1200
09 tr 1101 KPLC? 7 LA 325	1458 XHBC? 3 BCN 1010	1555 YSU? 4 EIS 1200
Es 1900 WCBD? 2 SC 1120	1610 lull to 1627	1600 TGV? 3 Gua 1120
1910 f/out	1640 KNBC? 4 CA 1190	1730 MUF 88.1 MHz
2115 MUF ch.2	1655 KTLA? 5 CA 1190	1915 apx f/outs
10 Es 1029 KTKA 2 MN 1110	1715 KVVU? 5 NV 1040	28 Es 1600 MUF ch.2
1045 f/out	1717 KORK 3 NV 1050	29 Es 2158 KORK 3 NV 1050
1159 KTWQ 2 WY 1015	1755 KDUH? 4 NE 940	2220 f/out
1915 KID? 3 ID 1215	1759 KOTA 3 SD 1040	2255 KUTV? 2 UT 1080
1915 KUTV 2 UT 1080	1932 MUF 89.3 MHz	01 Es 1527 KTVQ 3 MO 835
1920 KCPX? 4 UT 1080	2028 XHBC 3 BCN 1010	1534 WMT 2 IA 945
1935 KSL? 5 UT 1080	2032 KNKT 2 CA 1190	1550 KTV? 4 IA 905
2041 KORK 3 NV 1050	2045 f/outs	1610 KTKA? 2 MN 1110
MUF 94.1	20 Es 1810 KVOA? 4 AZ 750	1623 WCOO? 4 MN 1110
2058 KEYT 3 CA 1270	1830 KNBC? 4 CA 1190	1625 KGLO 3 IA 985
2105 KNBC? 4 CA 1190	1835 XETV? 6 CA 1100	1627 WBAY 2 WI 1190
2115 XHBC? 3 BCN 1010	2010 KNKT 2 CA 1190	1820 WRBL? 3 GA 830
2117 KNKT 2 CA 1190	21 Es 1110 KDKA? 2 PA 1280	1831 MUF 106.7 MHz
2145 f/outs	1115 WAVE 3 KY 945	1901 WESH 2 FL 1055
13 MS 0517:15 KMOX 4 MO 790	1115 WTAE? 4 PA 1280	1902 WSAV 3 GA 1050
0524:45 WRIV 6 IN 995	1117 WDTN? 2 OH 1075	1910 WJXT? 4 FL 1015
(both prior by Es)	1125 f/out	2033 WCBD 2 SC 1120
0601:15 WQWT 6 NE 830	1605 YSR? 2 EIS 1200	2040 WCIW? 4 SC 1120
0611:45 WHEF 4 IL 945	1730 WJXT? 4 FL 1015	2120 WWAY? 3 NC 1250
Es 1928 KORK 3 NV 1050	1739 WESH? 2 FL 1055	2130 f/outs
1929 KOAI 2 AZ 855	1807 XHFA? 2 SON 740	02 Es 1600 YSR 2 EIS 1200
1932 KVVU? 5 NV 1040	1810 KORK? 3 NV 1050	1605 YSU? 4 EIS 1200
1945 KNBC? 4 CA 1190	1815 KTVK 3 AZ 835	1710 MUF 98.5 MHz
1958 KNKT 2 CA 1190	1815 KPHO? 5 AZ 835	1759 KUSD 2 SD 920
2010 XHBC? 3 BCN 1010	1825 XHBC? 3 BCN 1010	1900 MUF ch.4
2030 lull to 2050; out 2058	1825 KOAI? 2 AZ 855	1959 KID 3 ID 1215
14 Es 2120 KNKT? 2 CA 1190	1825 KVOA? 4 AZ 750	2025 KUTV? 2 UT 1080
2128 XHBC? 3 BCN 1010	1830 KNBC? 4 CA 1190	2200 f/outs
2130 KNBC? 4 CA 1190	1830 KTLA? 5 CA 1190	03 Es 1830 MUF 98.5 MHz
2132 KUTV 2 UT 1080	1842 KUAT? 6 AZ 750	1925 f/outs
2150 f/out	1854 XENH? 6 SON 765	04 Es 1250-1320 KNKT 2 CA?
16 Es 1950 MUF ch.4 Mexico	1955 MUF 95.5 MHz	1310 KTVK? 3 AZ 835
17 Es 1820 Cuba? 2	2010 XETV? 6 BCN 1100	1820 WSLI 3 IL 810
1835 MUF ch.4	2045 f/outs	1820 WTTV? 4 IN 950
1915 f/outs	22 Es 1605 WJMK 2 MI 1225	1827 WTWQ? 2 IN 935
18 Es 1225 WCBD? 2 SC 1120	1625 WJWJ? 4 MI 1225	1859 WNGE 2 IN 820
1240 f/out	1710 f/out	05 tr 0118 KNDE 8 LA 440
1340 Cuba 2	1815 MUF ch.4	0120 KFDK 6 TX 275
1435 TGV? 3 Gua 1120	23 Es 1245 MUF ch.3	Es 2110 MUF ch.2
1440 WTVJ? 4 FL 1150	25 Es 1630 MUF ch.4	06 Es 1455-1555 YSR 2 EIS?
1445 WPBT? 2 FL 1150	1740 KORK? 3 NV 1050	(comments next page--de)

Pat Dyer's comments

Got the 1971 model in working shape again, and using it for ch.2,3 & UHF, as the solid-state tuner still a mess. Geminids provided some nice new catches for me, but the Quadrantids peaked too late in the day (apx 1000 CST); bursts either too short or with too many signals anyway. A very good December Es season--with levels still good now. 73, W4SIYX

Date	November	21	22	23	24	25	26	27	30	Dec	01	08	09	10	13	14	16	17	(17 Au)
# reporters	1	3	5	4	4	1	2	1		1	1	3	2	1	1	1	1	1	1
MUF at least	2	2	4	4	88.7	98.6	6	3		2	3	4	94.1	5	4	4	4		4

December	18	19	20	21	22	23	24	25	26	28	29	30	Jan	01	02	03
# rpters	2	3	4	4	2	3	1	3	2	2	1	1		3	4	4
MUF	106.5	102.5	100.9	100.1	4	5	5	107.9	88.1	6	3	93.1		106.7	98.5	107.9

January (03 2E) 04 05 06 For those interested, an earlier plan to change the format of the Es chart has been dropped. I'd like to hear general comments on this chart's value.

A recent letter from Patrick Martin of Portland OR expresses displeasure at the new policy of editing reports under 200 miles (320 km). It should be made clear that reports under that distance which are "especially newsworthy" will be included in the column. Examples are as outlined last month (i.e. new station, large bulk of new member's contribution, unusual xltr logging), plus loggings over difficult paths. Patrick mentions the difficulty of receiving many stations under 200 miles in the Northwest and mountainous regions. These are good examples of rough terrain and dry, relatively tropo-less conditions, making for difficult paths, therefore making many loggings under these conditions newsworthy.

I'd like to see more comments included with reports in the future; it sure makes for more interesting reading. How about it?

Don't forget that monthly reports are always preferable; even if you haven't been seeing much, you can contribute some comments, even gripes about the lousy cx, if you like! Anything and everything (within limits...) is welcome! If you haven't reported lately, get on the ball! W7FDA depends on YOU!

73 & the Best of DX!

Doug

INTERNATIONAL NOTES from Ken Simon, 528 Pilgrim Road West Palm Beach, Fla. 33405 (305) 585-7415 FEB., 1977

I'm still looking for some of our more technically minded members to come through with plans or ideas for a converter or modifications so we can see and hear F2 skip from Europe as the sunspots climb to the top of the cycle.

A glance at our membership list show foreign members in West Germany, England, Australia, Sweden, Switzerland and Jamaica. Surely you can send an airletter with a brief outline of your local TV and FM stations. Would also like to trade magazines that pertain to TV/FM DXing with our DX members. How 'bout it?

It's been a lousey year for me trying to watch Cuban stations but it appears the ICR-Canal 6 network has change to using a 3/4" eb and Reloj Nacional AM audio. I have not been able to tell if they are using color but heard an announcement over AM radio saying that color would begin Jan.1, 1976. If so they are using the SECAM system which won't show on an NTSC(US) color set.

73'D
Ken



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